



Directions for Use



Important!
Return your
Warranty
Registration Card
within 10 days.
See why inside.



Need help? Call us!

Philips representatives are ready to help you with any questions about your new product. We can guide you through Connections, First-time Setup, or any of the Features. We want you to start enjoying your new product right away!

**CALL US BEFORE YOU CONSIDER
RETURNING THE PRODUCT.**

1-800-531-0039

or

Visit us on the web at
www.philips.com

Model No.: _____
Serial No.: _____

Let's make things better.



PHILIPS

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your purchase, and welcome to the "family!"

PHILIPS



Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome—and thanks for investing in a PHILIPS product.

Sincerely,

Lawrence J. Blanford

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these
safety symbols



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.


CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

PHILIPS Visit our World Wide Web Site at <http://www.philips.com>

IMPORTANT SAFETY INSTRUCTIONS

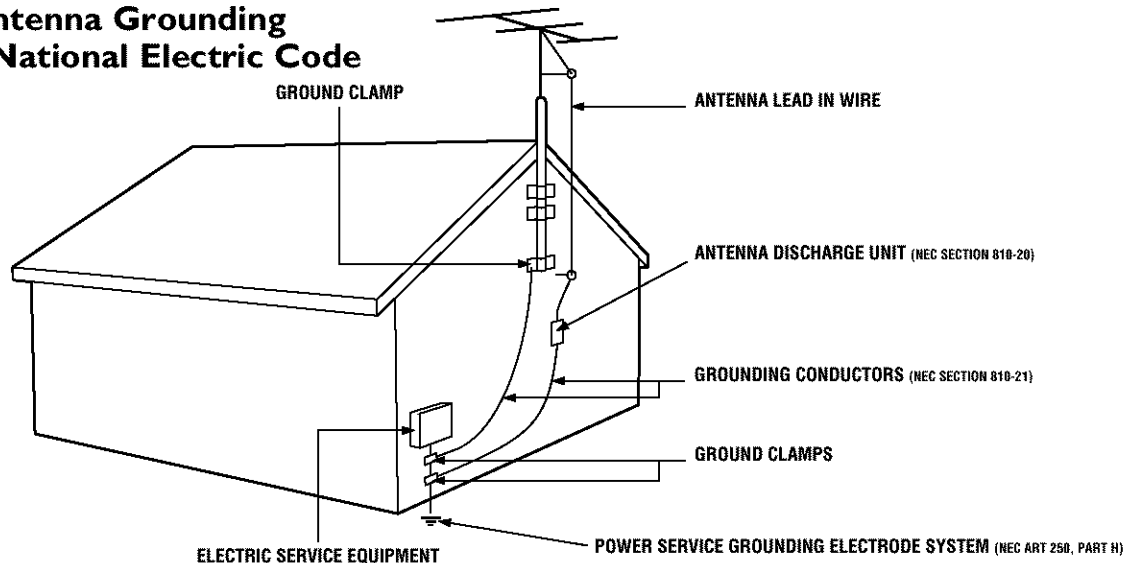
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12.  Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. This product may contain lead and mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org
16. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. **Tilt/Stability** - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.
 - Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
18. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
19. **Power Lines** - An outdoor antenna should be located away from power lines.
20. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
21. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
22. **Battery Usage CAUTION** - To prevent battery leakage that may result in bodily injury, property damage, or damage to the unit:
 - Install all batteries correctly, with + and - aligned as marked on the unit.
 - Do not mix batteries (old and new or carbon and alkaline, etc.).
 - Remove batteries when the unit is not used for a long time.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code



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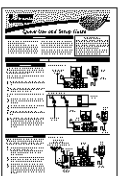


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QUICK USE AND SETUP GUIDE

Refer to the simple *Quick Use and Setup Guide* (supplied with your TV) for details on **Basic Connections, Remote Control Operation, Language and Auto Program.**



FEATURES

Active Control™ continuously measures and corrects all incoming signals to help provide the best picture quality. This feature monitors and corrects both the sharpness control and noise reduction control.

Audio/Video Jack Panel allows direct connections with VCRs, DVDs, High Definition Receivers or other devices, providing quality TV picture and sound playback.

Audio Volume Leveler (AVL) Control keeps the TV sound at an even level. Peaks and valleys that occur during program changes or commercial breaks are reduced, making for a more consistent, comfortable sound.

Channel Lock allows you to block the viewing of certain channels or programs with certain ratings if you do not want your children to view inappropriate materials.

Auto Programming scans (when activated) for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

AutoPicture™ allows you to change the picture settings (color, tint, contrast, etc.) for various types of programming, such as sports, movies, multimedia (games), or weak signals with the push of one button. Selections include, Personal, Rich, Natural, Soft, Multimedia, or Eco.

AutoSound™ allows you to change to different factory pre-defined audio settings and a personal control that you set according to your own preferences through the onscreen Sound menu. The five factory-set controls (Personal, Speech, Music, Movie, and Multimedia) enable you to tailor the TV sound so as to enhance the particular programming you are watching.

Channel Remove allows you to delete channels from the list stored in the TV's memory. Channel Remove makes it easy to limit the number of channels that are available to you when you press the Channel (+) or (-) buttons on your remote control.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as onscreen text.

Dynamic Contrast helps to sharpen the picture quality by improving the contrast between the darkest and brightest parts of the picture.

Pixel Plus™ (or Digital Processing) gives a choice of two different scanning techniques – Progressive Scan or Pixel Plus.

Progressive Scan doubles the number of picture lines, eliminating line flicker and providing a jitter-free picture.

Pixel Plus™ improves the appearance of onscreen motion. The number of picture lines are increased along with the number of pixels per line, giving normal broadcast signals, DVD reproduction or Digital TV signals, unparalleled sharpness and depth. Gives the viewer near High Definition and natural looking detail without the High Definition signal.

Infrared Remote Control works your TV and other remote-controlled devices, such as VCRs, DVD players, cable converters, satellite receivers, etc.

Onscreen Menu shows helpful messages and instructions for setting TV feature controls (can be viewed in English, French, or Spanish).

Sleep Timer automatically turns the TV OFF after a set amount of time that you choose.

Standard Broadcast (VHF/UHF) or Cable TV (CATV) channel capability allows for viewing by antenna or cable.

Stereo capability, including a built-in audio amplifier and twin-speaker system, allows for the reception of TV programs broadcast in stereo sound.

Surf Button allows you to easily switch among only the channels that are of interest to you (the ones that you have programmed into the TV's Surf control through the onscreen menu). Surf allows 2 channel surfing or 9 channel surfing.

Timer allows you to set your TV to turn itself ON and OFF once or daily like an alarm clock.

Items Included with This TV

As you unpack your TV, please note the included items:

- **Directions for Use manual (contains safety-tip, cleaning and Factory Service Center location information)**
- **Warranty Registration Card**
- **Remote Control (with supplied batteries for use)**
- **Quick Use Guide to help you set up your new TV.**

Please take a few minutes to complete your registration card. The serial number for the TV is on the rear of the set. For your future reference, please write down the serial and model number of this television in the space provided on the cover of this manual. (In the unlikely event you should need to place a service call, these numbers will be needed.)

END-OF-LIFE DISPOSAL

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts that need to be properly disposed.

Your product also uses batteries that should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

When you replace your existing equipment, please find out about the local regulations regarding disposal of your old television, batteries, and packing materials.



As an Energy Star® Partner, Philips Consumer Electronics has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

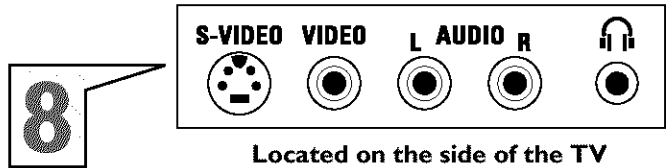
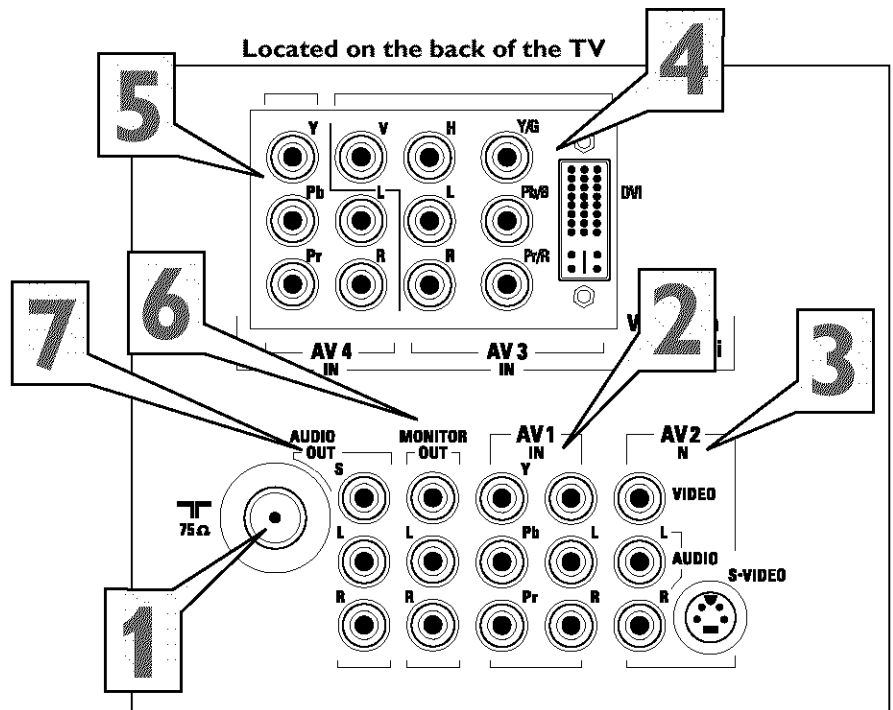
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JACK PANEL DESCRIPTIONS AND REQUIRED CABLES

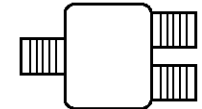
The television is equipped with external input and output jacks for use with optional accessory devices such as Home entertainment Receivers, VCRs, DVD Player, Gaming Units, Video Cameras, etc. The following gives a brief explanation of the different types of jacks available and the type of cables needed to make connections.

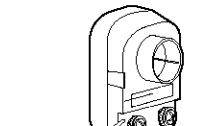
- 1** 75Ω RF - Cable/Antenna Input connection jack.
- 2** AV 1 IN - Audio/Video connection jacks including Component Video Inputs.
- 3** AV 2 IN - Audio/Video Input connection jacks including S-Video connections.
- 4** AV 3 IN - Component Video, DVI (Digital Video Input), Audio Inputs, Horizontal and Vertical Sync connection jacks.
- 5** AV 4 IN - High Definition Component Video and Audio Input connection jacks.
- 6** Monitor Out - Audio/Video Output connection jacks (TV tuner signal only).
- 7** Audio Out - Audio connections for home entertainment receivers and external speakers.
- 8** SIDE - Audio/Video Input jacks include a S-Video jack, plus a Headphone jack located on the side of the cabinet.

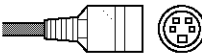



Cable Descriptions:


 A 75-ohm **coaxial cable** connects signals from an antenna or a cable TV company to the antenna jack on the back of the TV. Coaxial cables use “F” connectors.

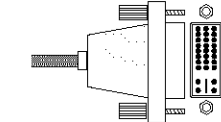
 A **two-way signal splitter** enables you to take a single antenna or cable TV signal and supply it to two different inputs.

 A **300- to 75-ohm twin-lead adapter** accepts the antenna cables (called twin-lead wires) from an antenna, allowing you to connect the antenna signal to the TV.

 An **S-Video cable** provides better picture performance than regular (composite) video connections. S-Video cables can be used only with S-Video-compatible accessory devices. You must also connect the left and right audio cables to the AV 2 Audio in jacks because the S-Video jack carries only the picture signal, not the sound.

 **Video and audio cables** with standard RCA (phono) connectors connect the video and audio jacks of accessory devices such as VCRs and DVD players to the jacks on the TV.

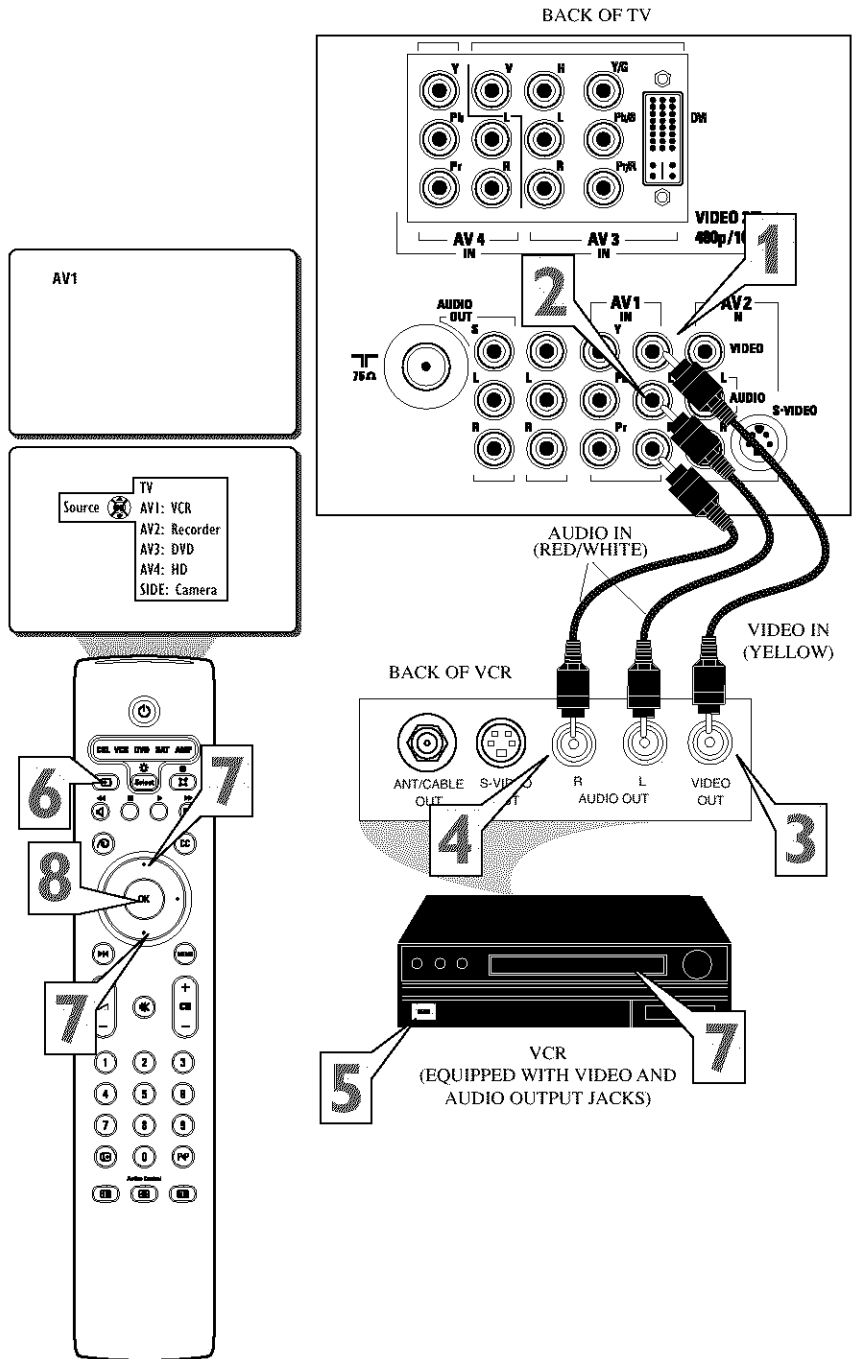
 These connectors are usually color coded. The jacks on your TV are also color coded to match the colors of the connectors. Yellow for video (composite) and Red and White for the right and left audio channels. The video cables used to connect component video or RGB (high-resolution) jacks are color coded red, green, and blue.

 A **DVI (Digital Video) cable** that will support digital connection from a PC. Only Single Digital Link DVI is supported for PCs with 480p or 1080i output.

USING THE AV 1 INPUT JACKS

The TV's audio/video input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has audio/video output jacks. Follow the easy steps below to connect your accessory device to the AV 1 Input Jacks located on the back of the TV.

- 1** Connect the VIDEO (yellow) cable to the VIDEO AV1 IN jack on the back of the TV.
- 2** Connect the AUDIO (red and white) cables to the AUDIO (left and right) AV1 IN jacks on the rear of the TV.
- 3** Connect the VIDEO (yellow) cable to the VIDEO OUT jack on the back of the VCR.
- 4** Connect the AUDIO (red and white) cables to the AUDIO (left and right) OUT jacks on the rear of the VCR.
- 5** Turn the VCR (accessory device) and the TV ON.
- 6** Press the SOURCE button on the remote control to display the SOURCE menu.
- 7** Press the CURSOR UP or DOWN button to select the AV1 option.
- 8** Press the OK button to confirm your selection. The TV will change to the AV1 channel.

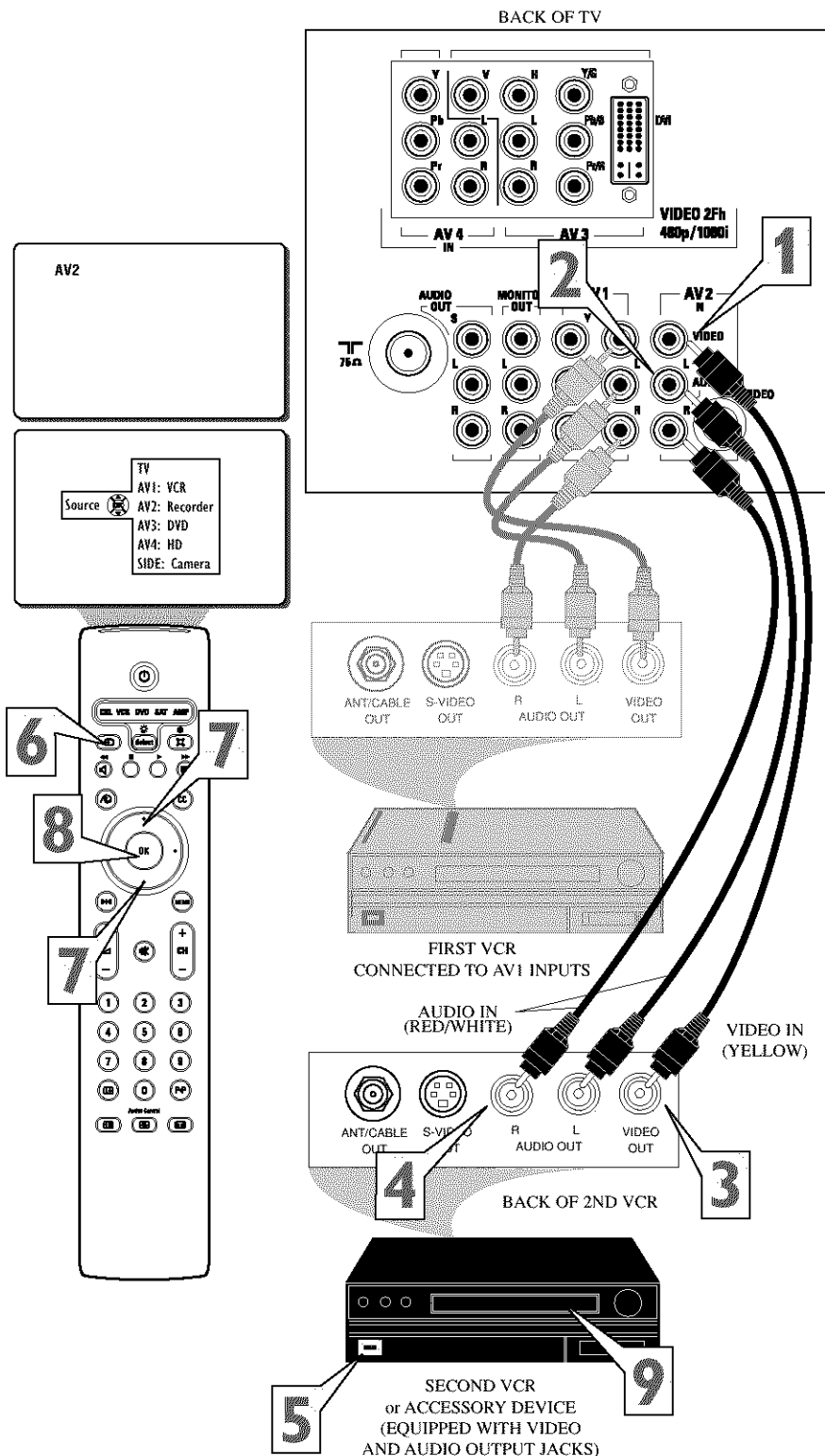




USING THE AV 2 INPUT JACKS

The TV's audio/video input jacks allow you connect multiple accessory devices at one time to different sets of input jacks.. Follow the easy steps below to connect an additional accessory device to the AV 2 Input Jacks located on the back of the TV.

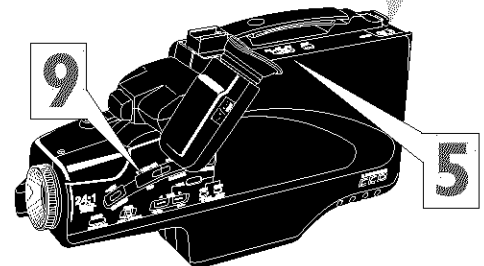
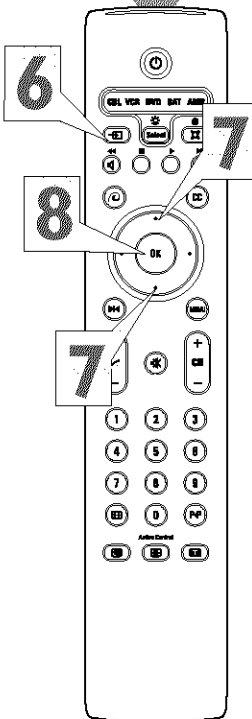
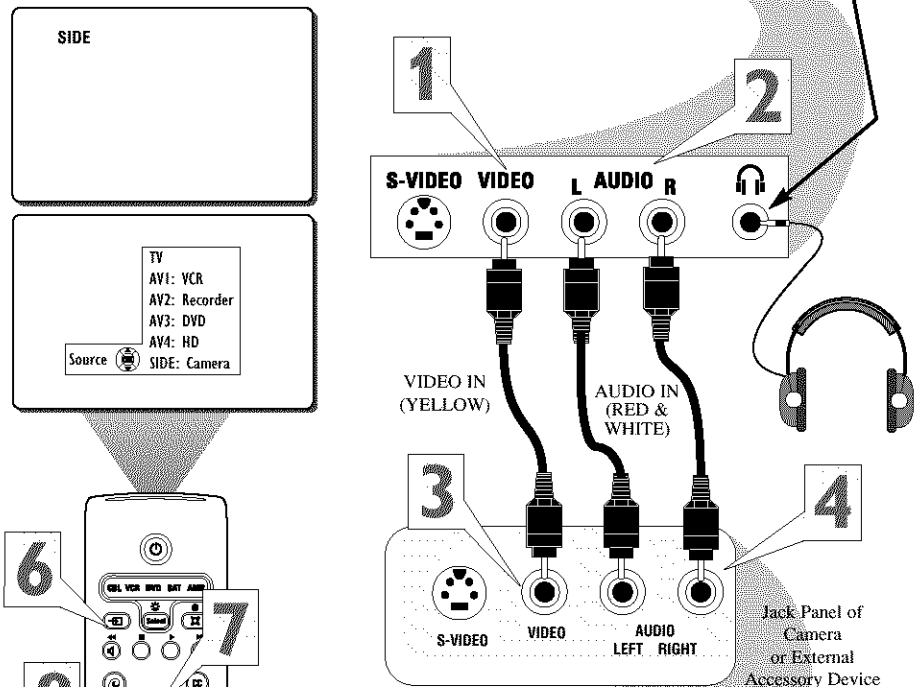
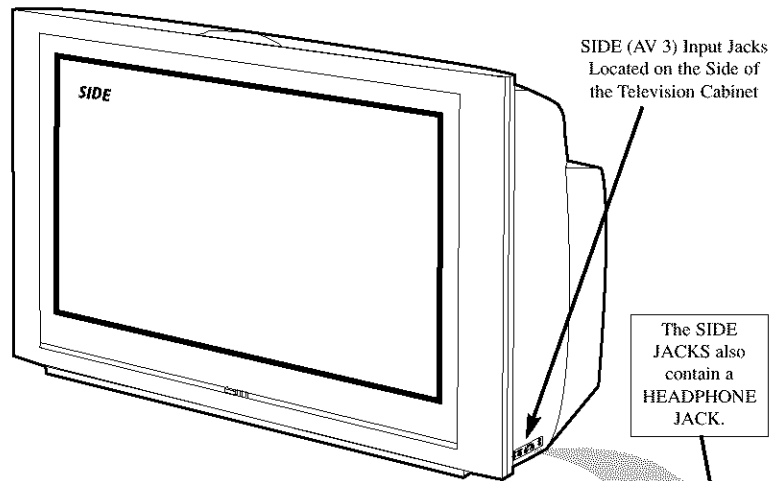
- 1 Connect the VIDEO (yellow) cable to the VIDEO AV2 IN jack on the back of the TV.
- 2 Connect the AUDIO (red and white) cables to the AUDIO (left and right) AV2 IN jacks on the rear of the TV.
- 3 Connect the VIDEO (yellow) cable to the VIDEO OUT jack on the back of the VCR.
- 4 Connect the AUDIO (red and white) cables to the AUDIO (left and right) OUT jacks on the rear of the VCR.
- 5 Turn the VCR (accessory device) and the TV ON.
- 6 Press the SOURCE button on the remote control to display the SOURCE menu.
- 7 Press the CURSOR UP or DOWN button to select the AV2 option.
- 8 Press the OK button to confirm your selection. The TV will change to the AV2 channel.
- 9 With the VCR (or accessory device) ON and a prerecorded tape (or other media depending on type of accessory device being used) inserted, press the PLAY button to view the tape on the television.



USING THE SIDE INPUT JACKS

This television has input jacks conveniently located on the side of the cabinet. These jacks are for easy hook-ups (without having to move around to the back of the TV) for cameras, gaming units, and other accessory devices that wouldn't be connected permanently. Follow the easy steps below to connect your accessory device to the SIDE Input Jacks located on the right side of the TV.

- 1** Connect the VIDEO (yellow) cable to the VIDEO IN jack on the side of the TV.
- 2** Connect the AUDIO (red and white) cables to the AUDIO (left and right) IN jacks on the side of the TV.
- 3** Connect the VIDEO (yellow) cable to the VIDEO OUT jack on the back of the camera (or accessory device).
- 4** Connect the AUDIO (red and white) cables to the AUDIO (left and right) OUT jacks on the rear of the camera (or accessory device).
- 5** Turn the camera (or accessory device) and the TV ON.
- 6** Press the SOURCE button on the remote control to display the SOURCE menu.
- 7** Press the CURSOR UP or DOWN button to select the SIDE option.
- 8** Press the OK button to confirm your selection. The TV will change to the SIDE channel.
- 9** With the camera (or accessory device) ON and a prerecorded tape (or other media depending on type of accessory device being used) inserted, press the PLAY button to view the tape on the television.



NOTE: The S-Video Cable can be used in place of the Yellow Video cable shown in this diagram. If your camera or accessory device has a S-Video output jack, connecting the video signal through the S-Video jack will reproduce the video signal with greater quality.

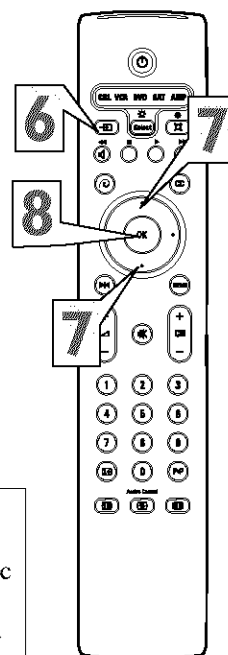
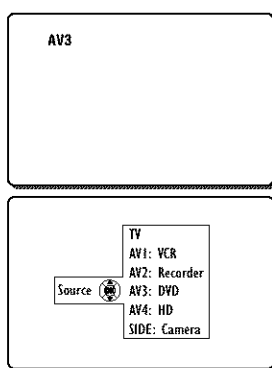
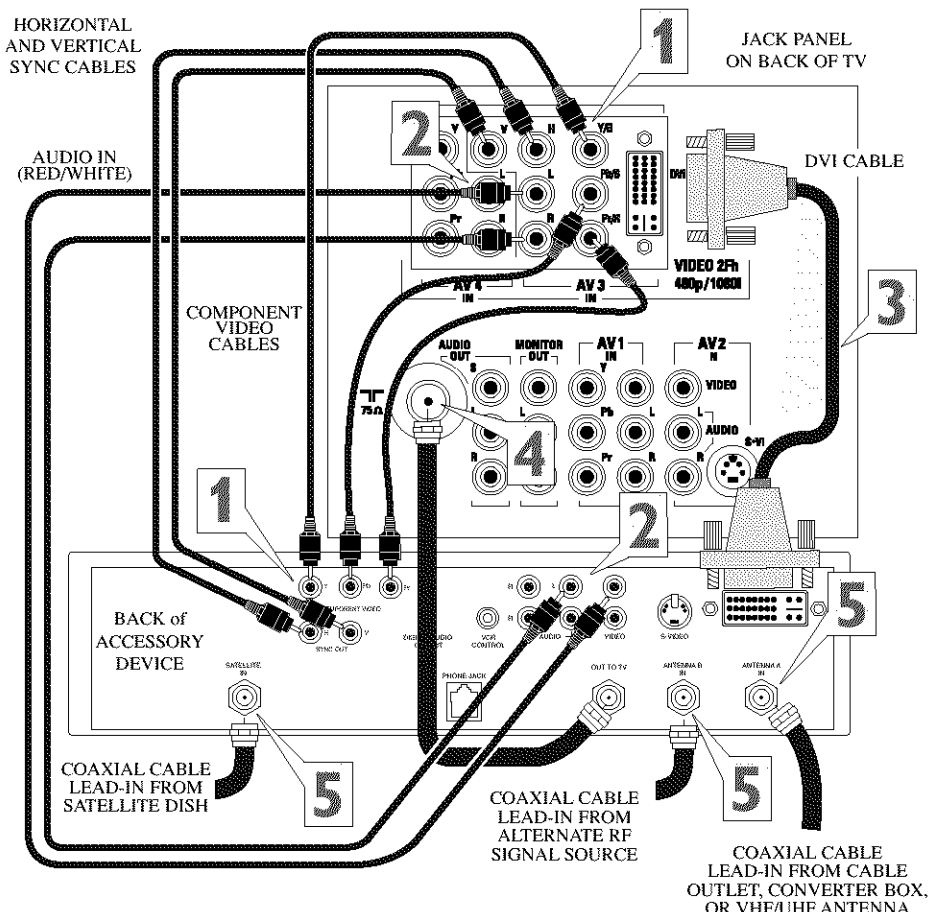


USING THE AV 3 INPUT JACKS

The AV3 Input Jacks provide Both Component and Digital Video Inputs at 1080i, for accessories like a HD Receiver and Digital DVD Players. There is also a DVI jack supplied allowing encrypted transmission of uncompressed HD content.

Note: If the AV3 channel is tuned and no signal connection present, the screen could jump or flash.

- 1** Connect the Component (Y, Pb, Pr) Video OUT jacks from the HD accessory device to the (Y, Pb, Pr) AV3 IN(put) jacks on the TV. If the device your using is equipped with seperate Horizontal and Vertical sync, connect the H and V Outputs on the accessory device to the H and V Inputs of AV3 IN.
- 2** Connect the red and white AUDIO CABLES to the Audio (left and right) output jacks on the rear of the HD accessory device to the Audio (L and R) AV3 IN(put) jacks on the TV.
- 3** Connect a DVI cable from the DVI OUT on the HD accessory device to the AV3 DVI jack on the back of the TV.
- 4** Connect a 75Ω round cable from the OUT TO TV jack on the HD accessory device to the 75Ω IN on the back of the TV.
- 5** If using a Satellite Dish, Cable signal or Antenna signal, connect the 75Ω round cable from a Satellite Dish to the SATELLITE IN and/or the Cable and Antenna signals to the ANTENNA "A" or "B" IN on the back of the HD accessory device.
- 6** Press the SOURCE button on the remote control to display the SOURCE menu.
- 7** Press the CURSOR UP or DOWN button to select the AV3 option.
- 8** Press the OK button to confirm your selection. The TV will change to the AV3 channel.



✓ CHECK IT OUT

DVI - DVI is a specific digital input allowing encrypted transmission of uncompressed HD content. DVI includes HDCP (high-bandwidth digital content protection), which is supported by Hollywood, satellite providers, and most of the consumer electronics industry. DVI is gaining momentum and quickly becoming an industry standard for the consumer to view high-definition material while keeping content protected. NOTE: The Picture-in-Picture (PIP) feature is not available for use with AV3.


NOTE: This television is designed to accept high definition signals 1080i and 480p as specified by the Electronic Industries Association standard EIA770.3. Digital devices from different manufacturers have the possibility of differing output standards which may cause difficulties for the television to properly display.

USING THE AV 4 INPUT JACKS

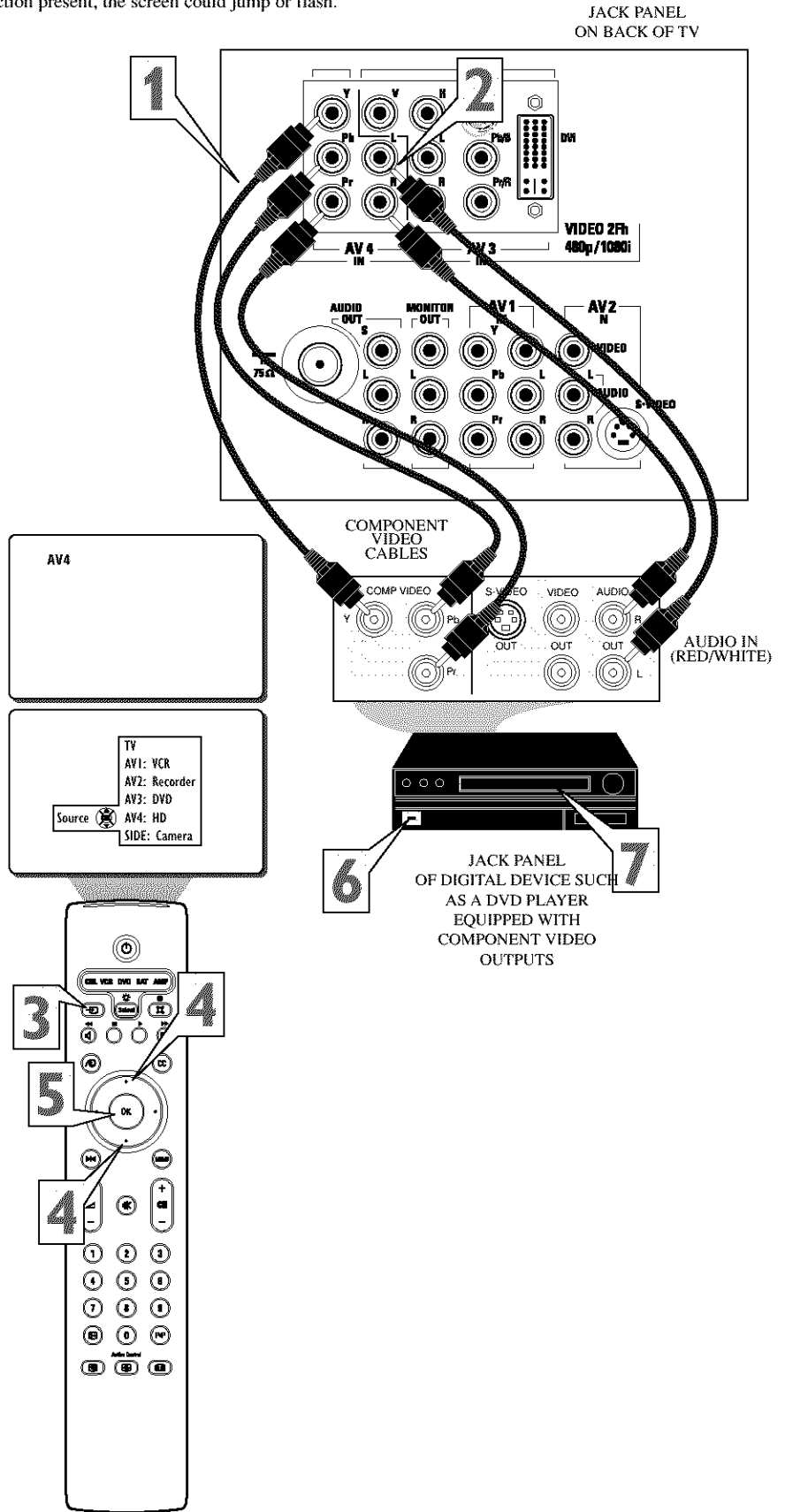


The AV4 Input Jacks provide Component Video Inputs at 1080i, for accessories like a HD Receiver and Digital DVD Players. Using the color difference signals (Pb, Pr) and the luminance (Y) signal will improve color bandwidth information.

Note: If the AV4 channel is tuned and no signal connection present, the screen could jump or flash.

- 1** Connect the Component (Y, Pb, Pr) Video OUT jacks from the DVD player (or similar device) to the (Y, Pb, Pr) AV4 IN(put) jacks on the TV.
- 2** Connect the red and white AUDIO CABLES to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device to the Audio (L and R) AV4 IN(put) jacks on the TV.
- 3** Press the SOURCE  button on the remote control to display the SOURCE menu.
- 4** Press the CURSOR UP or DOWN button to select the AV3 option.
- 5** Press the OK button to confirm your selection. The TV will change to the AV4 channel.
- 6** Turn the TV and the DVD (or digital accessory device) ON.
- 7** Press the PLAY button on the DVD (or digital accessory device) to view the program on the television.

NOTE: This television is designed to accept high definition signals 1080i and 480p as specified by the Electronic Industries Association standard EIA770.3. Digital devices from different manufacturers have the possibility of differing output standards which may cause difficulties for the television to properly display.



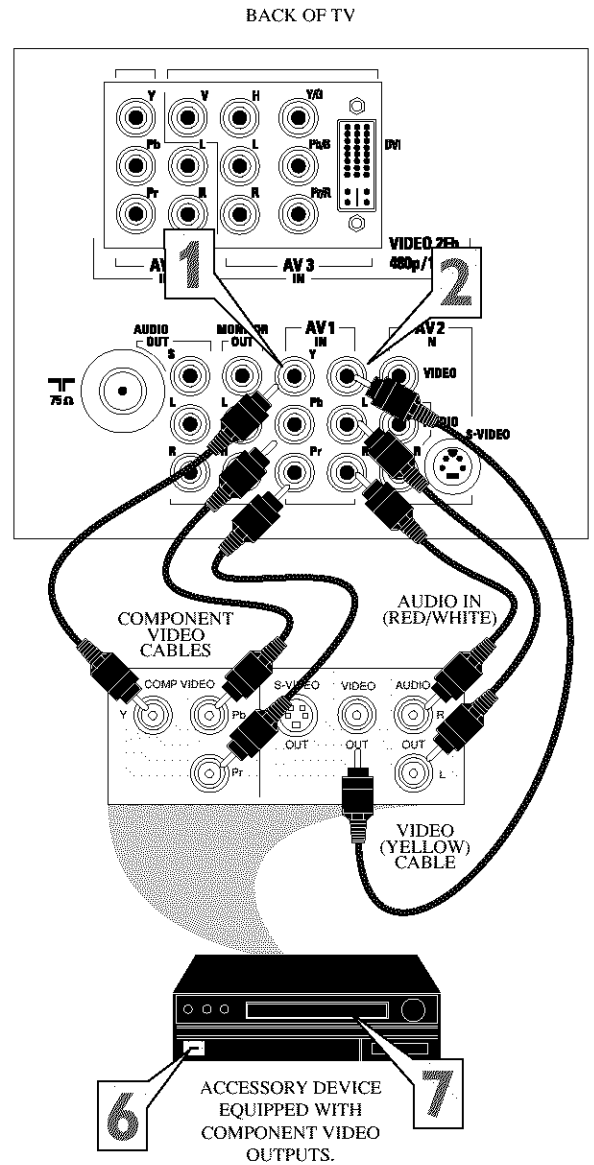
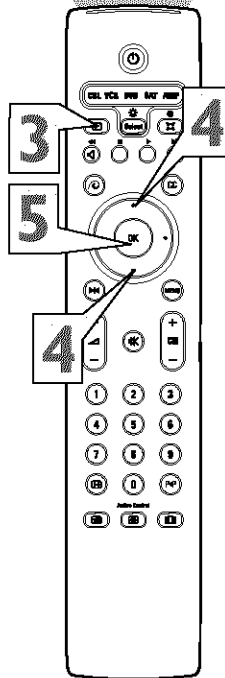
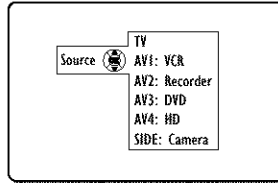
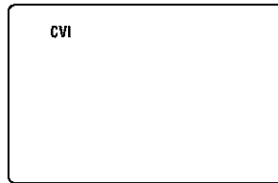


USING THE COMPONENT VIDEO INPUT (CVI) JACKS

If using an accessory device that is not high definition but uses Component Video jacks. The AV1 jacks on the TV offer the user the possibility of better video reproduction using the Component Video Inputs. The color difference signals (Pb, Pr) and the luminance (Y) signal are connected and received separately, which allows for improved color bandwidth information (not possible when using composite video or S-Video connections).

- 1** Connect the Component (Y, Pb, Pr) Video OUT jacks from the DVD player (or similar device) to the (Y, Pb, Pr) IN(put) jacks on the TV. When using the Component Video Inputs, it is best not to connect a signal to the AV1 Video Input.
- 2** Connect the yellow VIDEO CABLE along with the red and white AUDIO CABLES to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device to the AV1 VIDEO and AUDIO IN(put) jacks on the TV.
- 3** Press the SOURCE button on the remote control to display the SOURCE menu.
- 4** Press the CURSOR UP or DOWN button to select the AV1 option. CVI will show onscreen rather than AV1.
- 5** Press the OK button to confirm your selection. The TV will change to the AV1 channel.
- 6** Turn the TV and the DVD (or digital accessory device) ON.
- 7** Insert a DVD disc into the DVD player and press the PLAY button on the DVD Player (or digital accessory device).

The CVI connection will be dominate over the AV1 Video Input. When a Component Video Device is connected as described, it is best not to have a video signal connected to the AV1 Video Input jack.



HELPFUL HINT


The description for the component video connectors may differ depending on the DVD player or accessory digital source equipment used (for example, Y, Pb, Pr; Y, B-Y, R-Y; Y, Cr, Cb). Although abbreviations and terms may vary, the letters *b* and *r* stand for the blue and red color component signal connectors, and *Y* indicates the luminance signal. Refer to your DVD or digital accessory owner's manual for definitions and connection details.

USING THE S-VIDEO INPUT JACKS

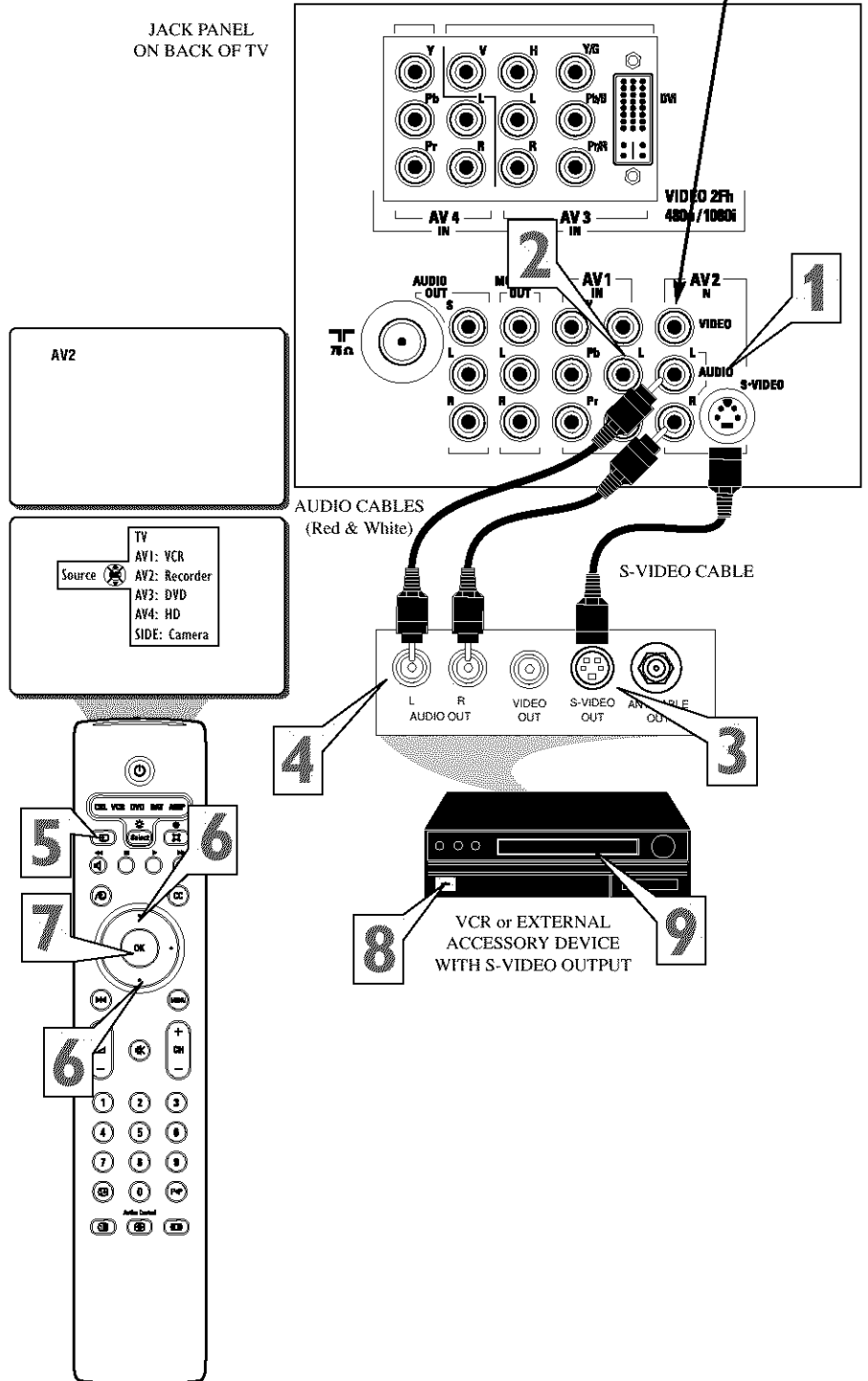


The S(uper)-Video connection on the rear of the TV can provide you with better picture detail and clarity for the playback of accessory sources such as DBS (digital broadcast satellite), DVD (digital video discs), video games, and S-VHS VCR (video cassette recorder) tapes than the normal antenna picture connections.

NOTE: The accessory device must have an S-VIDEO OUT(put) jack in order for you to complete the connection on this page.

- 1** Connect the S-VIDEO CABLE to the S-VIDEO input jack on the rear of the television.
- 2** Connect the AUDIO (red and white) cables to the AUDIO AV2 IN jacks on the rear of the TV.
- 3** Connect the S-VIDEO CABLE to the S-VIDEO OUT(put) jack on the accessory device.
- 4** Connect the red and white AUDIO cables to the AUDIO (left and right) OUT(put) jacks on the rear of the accessory device.
- 5** Press the SOURCE  button on the remote control to display the SOURCE menu.
- 6** Press the CURSOR UP or DOWN button to select the AV2 option.
- 7** Press the OK button to confirm your selection. The TV will change to the AV2 channel.
- 8** Turn the VCR, DVD or other accessory device ON.
- 9** With the VCR (or accessory device) ON and a prerecorded tape inserted, press the PLAY button to view the tape on the television.

When using the S-Video Input, do not connect a video signal to the AV 2 IN Video Jack. This could cause a ghost image to appear over the S-Video signal.



CHECK IT OUT

The S-Video jack and the AV 2 jacks work together. When a device is connected to the S-Video jack, do not connect a signal to the AV 2 IN Video jack. This could cause an over-lapping of two video images on the TV screen.



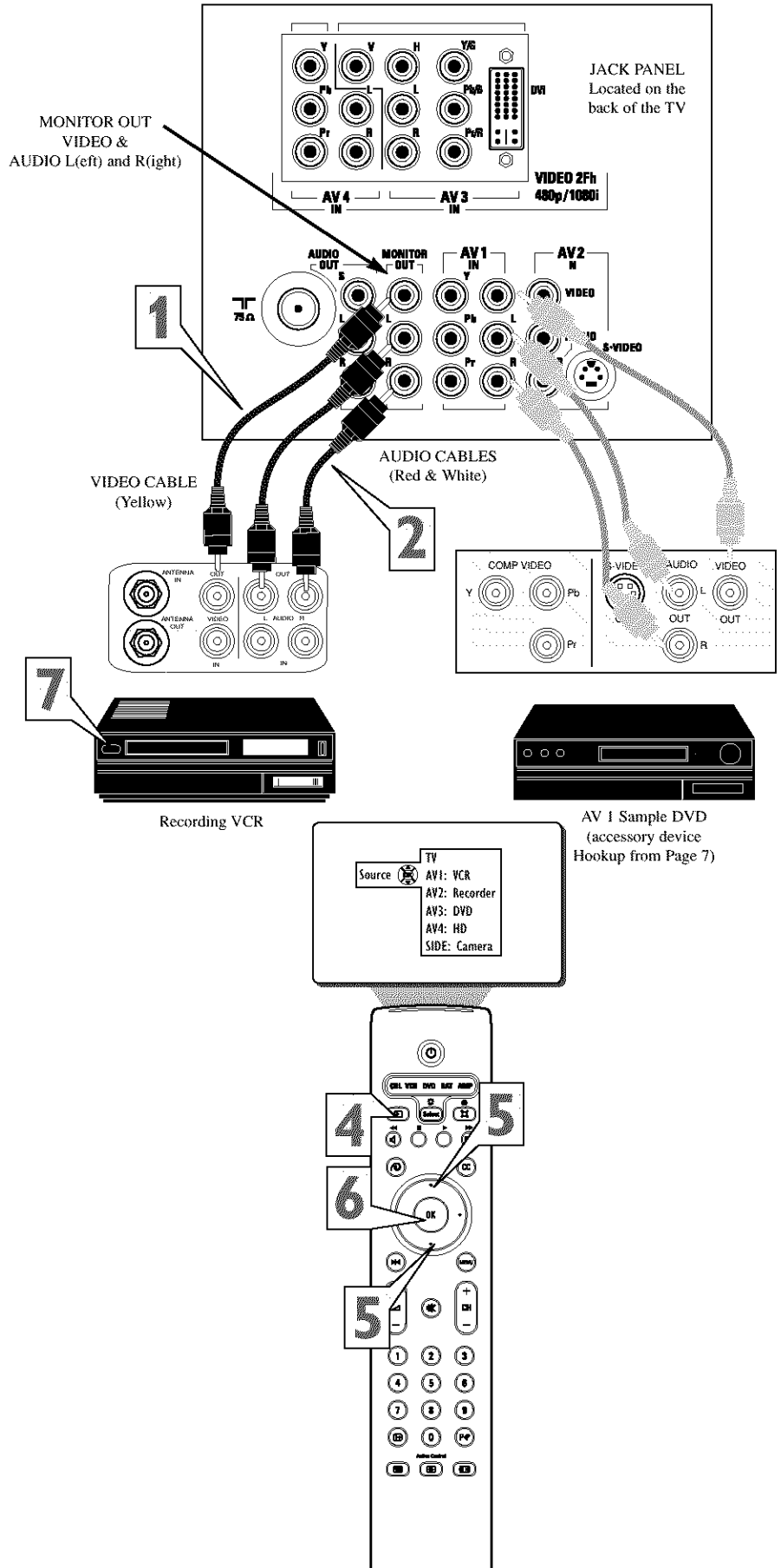
USING THE MONITOR OUTPUT JACKS

The Audio/Video (Monitor) Output jacks can be used for recording a selected TV (Antenna Input/tuner signal source) Channel. This recording can even be completed while viewing another external Audio/Video Source Select option. (For example: DVD program playback shown through the A/V 1 or 2 Input source connection.)

NOTE: Refer to page 7 for the proper hookup of an accessory device to the AV 1 IN (put) jacks. Follow the instructions on how to tune to the AV 1 channel to view a DVD program playback or pre-recorded VCR tape.

The following steps allow you to connect a VCR to record a selected TV channel program through the Monitor Outputs.

- 1** Connect one end of the yellow Video Cable to the Monitor Out VIDEO plug. Connect the other end to the VIDEO IN plug on the VCR.
- 2** Connect one end of the red and white Audio cable from the Monitor Out AUDIO L and R plugs on the TV to the AUDIO IN plugs on the VCR.
- 3** Tune the TV to the program channel you wish to record.
Note: Once selected be sure to leave the TV channel tuned to the desired program until the complete recording is finished.
- 4** Press the SOURCE button on the remote control to display the SOURCE menu.
- 5** Press the CURSOR UP or DOWN button to select the AV1 option (or any of the other AV connection options from which you wish to watch an accessory device playback. Example: DVD playback on AV 1).
- 6** Press the OK button to confirm your selection. The TV will change to the AV1 channel input (or any other source option you wish to select).
- 7** Turn the VCR ON, insert a blank VHS tape and it's ready to record the channel program you selected previously in step #3.



USING THE AUDIO OUTPUT JACKS

The Audio Output jacks are great for connecting to an external audio system or a set of external speakers. This will enhance the sound coming from the television to improve your viewing and listening experience.

For Audio System Connection:

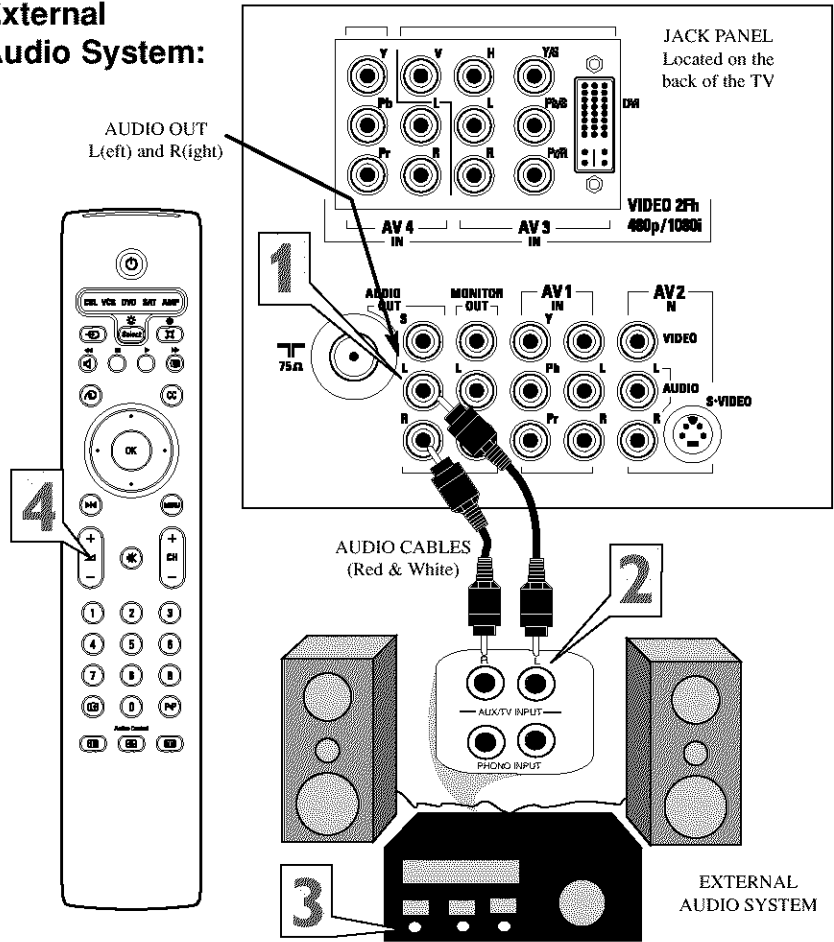
- 1 Connect one end of the R(ight) and L(ef) Audio Cables (red and white) to the AUDIO OUT (Left and Right) jacks on the television.
- 2 Connect the other ends of the R(ight) and L(ef) Audio Cables (red and white) to the Audio Left and Right Input jacks on the external Audio System.
- 3 Turn the Audio System and the TV on. Adjust the volume coming from the Audio System to a pleasant listening level.
- 4 You can now adjust the sound level coming from the audio system by pressing the VOLUME (+) or (-) button on the TV or remote control.

For External Speaker Connection:

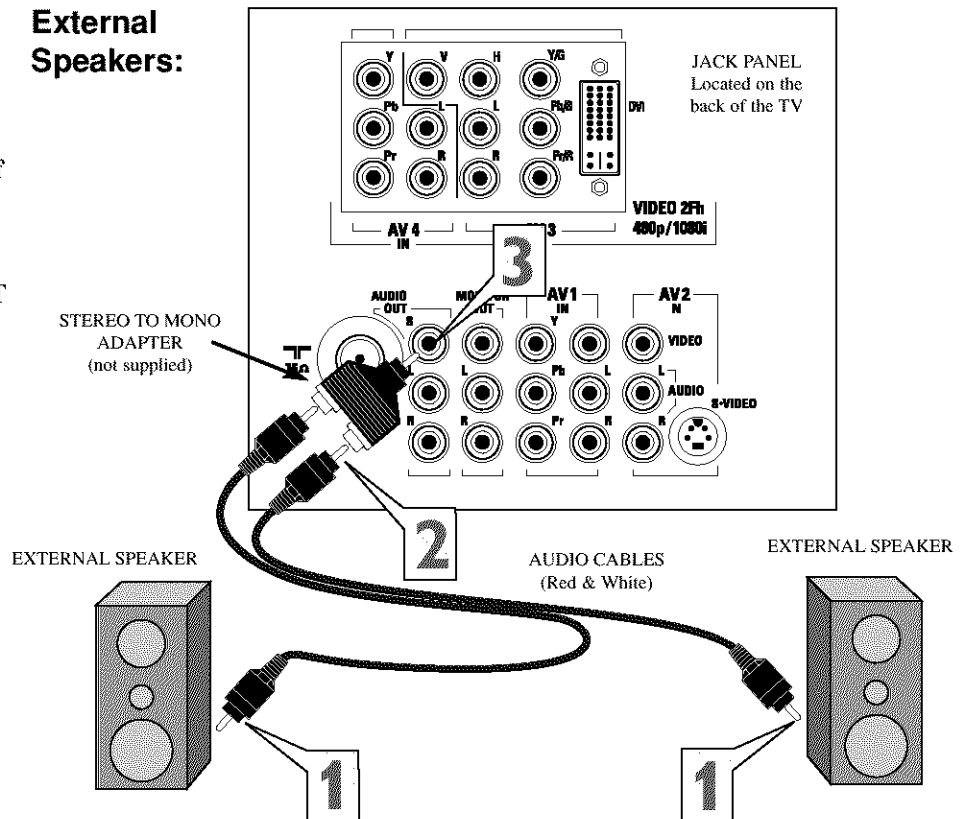
- 1 Connect one end of the R(ight) and L(ef) Audio Cables (red and white) to each of the external speakers.
- 2 Using a Stereo to Mono adapter (not supplied) connect the other ends of the Audio Cables to the Stereo end of the adapter.
- 3 Connect the mono end of the Stereo to Mono Adapter to the AUDIO OUT S jack.

These speakers can now be adjusted using the Speaker controls within the Setting section of the onscreen menu. Please see page 42 for more details.

External Audio System:



External Speakers:



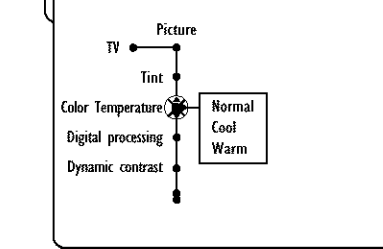
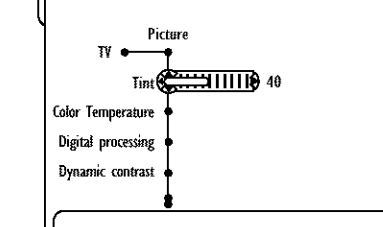
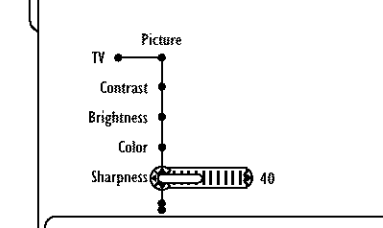
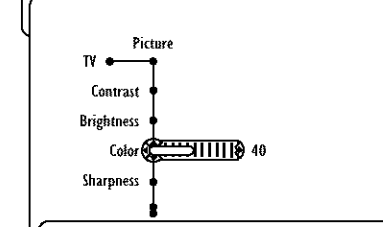
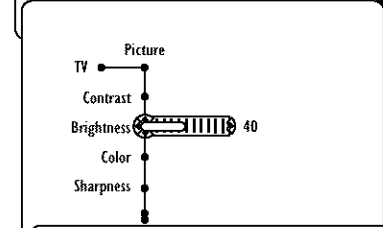
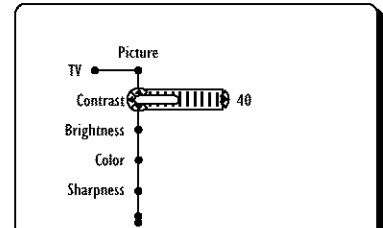
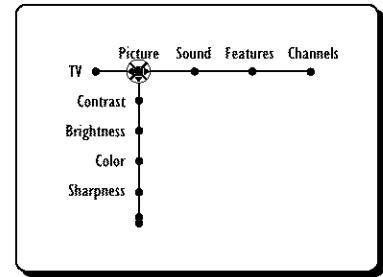
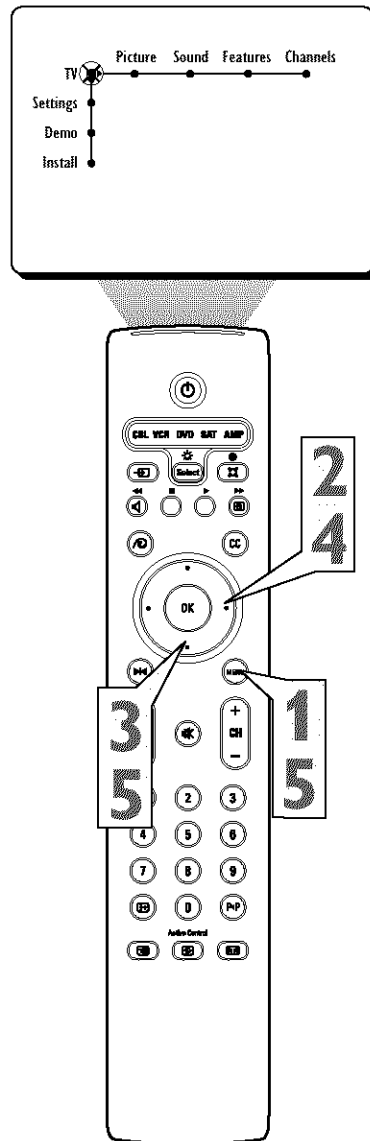


ADJUSTING THE PICTURE CONTROLS


To adjust your TV picture controls, select a channel and follow these steps.

- 1** Press the **MENU** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR RIGHT** button to highlight **PICTURE**.
- 3** Press the **CURSOR DOWN** button to select one of the picture adjustment: **CONTRAST**, **BRIGHTNESS**, **COLOR**, **SHARPNESS**, **TINT**, OR **COLOR TEMPERATURE**.
- 4** Press the **CURSOR LEFT** or **CURSOR RIGHT** button to adjust the selected control. OR, if **COLOR TEMPERATURE** is chosen, press the **CURSOR RIGHT** to choose from a submenu of options; **NORMAL**, **COOL**, or **WARM**.
- 5** Press the **MENU** button when finished to remove the onscreen menu from the TV screen.

NOTE: The menu will show only four items at a time, so you will need to continue scrolling with the **CURSOR DOWN** button to adjust the **TINT** and **COLOR TEMPERATURE**.



HELPFUL HINT

Remember, when the bar scale is centered , the control settings are at normal, mid-range levels.

NOTE: The **SHARPNESS** and **TINT** Controls will not be available for adjustments when tuned to the **AV3/AV4/CVI** Inputs.

BRIGHTNESS – adds or subtracts light from the darkest part of the picture.

COLOR – adds or eliminates color.

PICTURE – improves the detail of the lightest parts of the picture.

SHARPNESS – improves the detail in the picture.

TINT – adjusts the picture to obtain natural skin tones.

COLOR TEMP offers **NORMAL**, **COOL**, or **WARM** picture preferences.

NORMAL – keeps whites, white.

COOL – makes whites, bluish.

WARM – makes whites, reddish.

HOW TO USE THE DIGITAL PROCESSING CONTROL



The Digital Processing control gives you a choice between two different picture scanning modes: Progressive Scan or Pixel Plus.

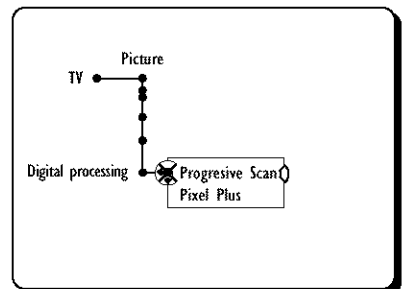
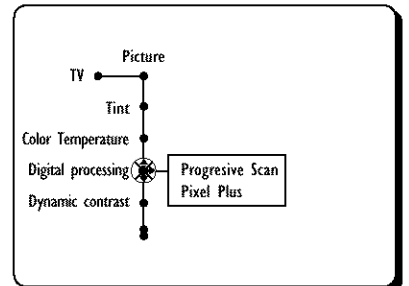
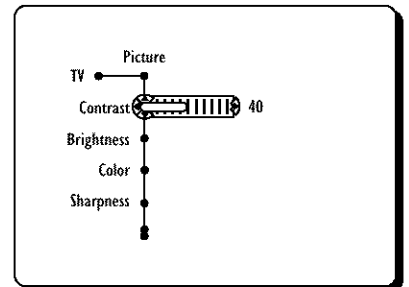
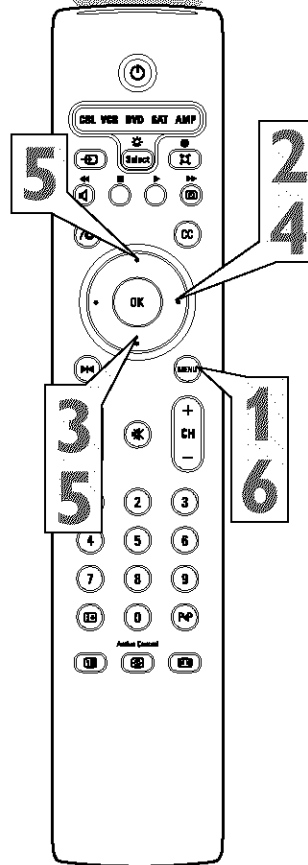
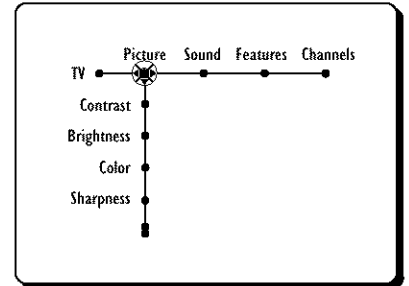
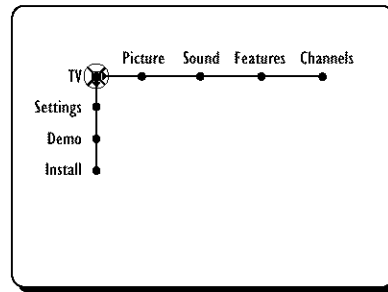
Progressive Scan doubles the number of picture lines, eliminating line flicker and providing a jitter-free picture.

Pixel Plus improves the picture quality and appearance of onscreen images. The number of picture lines are increased along with the number of pixels per line, giving normal broadcast signals, DVD reproduction or Digital TV signals, unparalleled sharpness and depth. This gives the viewer near High Definition and natural looking detail without the High Definition signal.

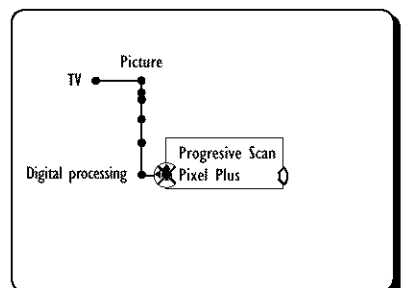
- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR RIGHT** button to highlight **PICTURE**.
- 3 Press the **CURSOR DOWN** button repeatedly until the **DIGITAL PROCESSING** control is highlighted.
- 4 Press the **CURSOR RIGHT** button to enter the Digital Processing sub-menu.
- 5 Press the **CURSOR UP** or **DOWN** button to select **PROGRESSIVE SCAN** or **PIXEL PLUS**.
- 6 Press the **MENU** button to remove the onscreen menu from the TV screen.

HELPFUL HINT

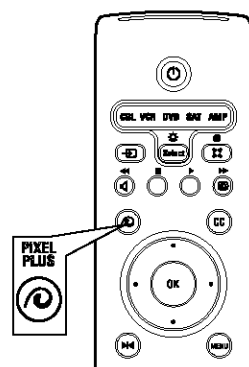
With the use of Pixel Plus some DVD players may display certain screen elements or artifacts while in playback. The Auto Picture-SOFT control (see page 21) can also be used to help reduce the appearance and level of such a screen playback condition.



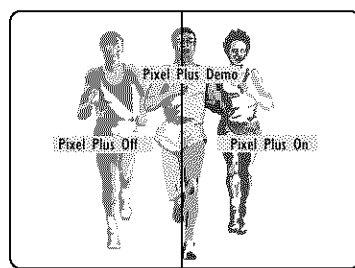
OR



Pixel Plus Demo



With Pixel Plus ON, there is a sharper image with more natural motion. The picture will appear flicker free.



Note: The Digital Processing Control is not available for use with the AV 3 or AV 4 input jacks.



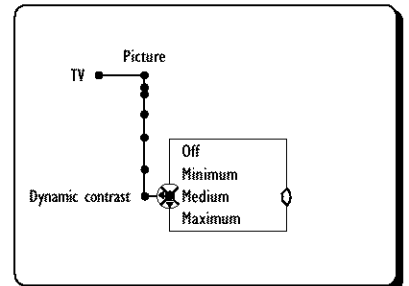
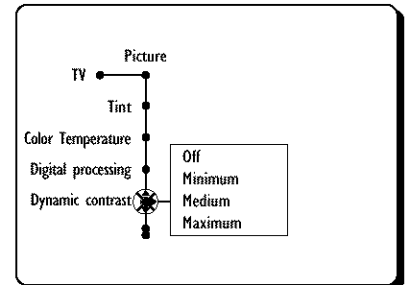
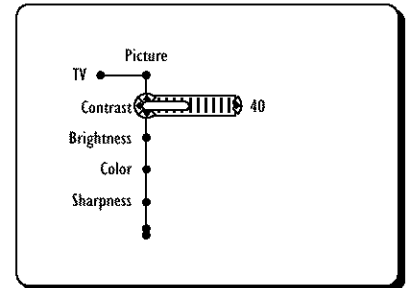
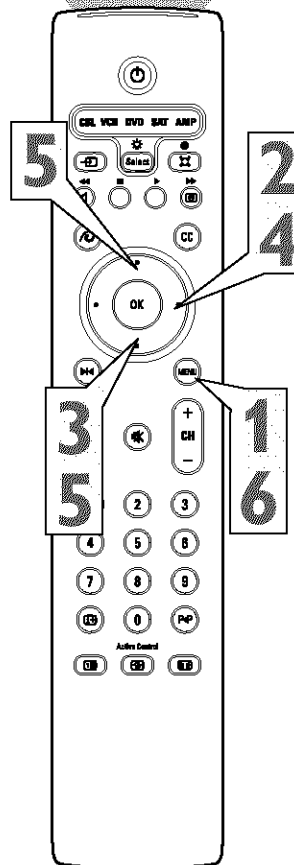
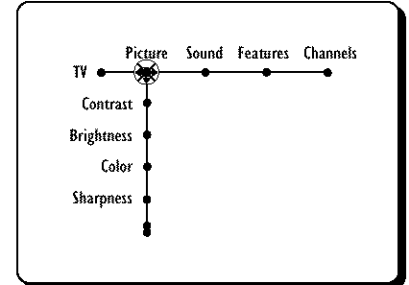
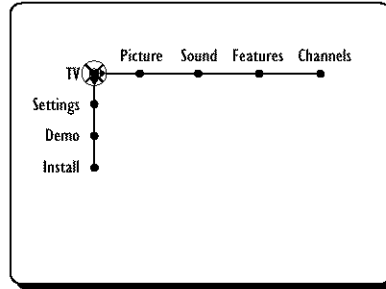
HOW TO SET THE DYNAMIC CONTRAST CONTROL

The Dynamic Contrast control allows you to sharpen the picture quality by making dark portions of the picture darker and light portions of the picture more noticeable. Normally, you will probably want to select **MEDIUM**. In certain circumstances, however, you may prefer **MINIMUM** or **MAXIMUM**.

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button to highlight **PICTURE**.
- 3** Press the **CURSOR DOWN** button repeatedly until the **DYNAMIC CONTRAST** control is highlighted.
- 4** Press the **CURSOR RIGHT** button to enter the Dynamic Contrast sub-menu.
- 5** Press the **CURSOR UP** or **DOWN** button to select one of the Dynamic Contrast options; **OFF**, **MINIMUM**, **MEDIUM**, or **MAXIMUM**.
- 6** Press the **MENU** button to remove the onscreen menu from the TV screen.

HELPFUL HINT

The Dynamic Contrast control is not available for use with the AV 3 or AV 4 Inputs.

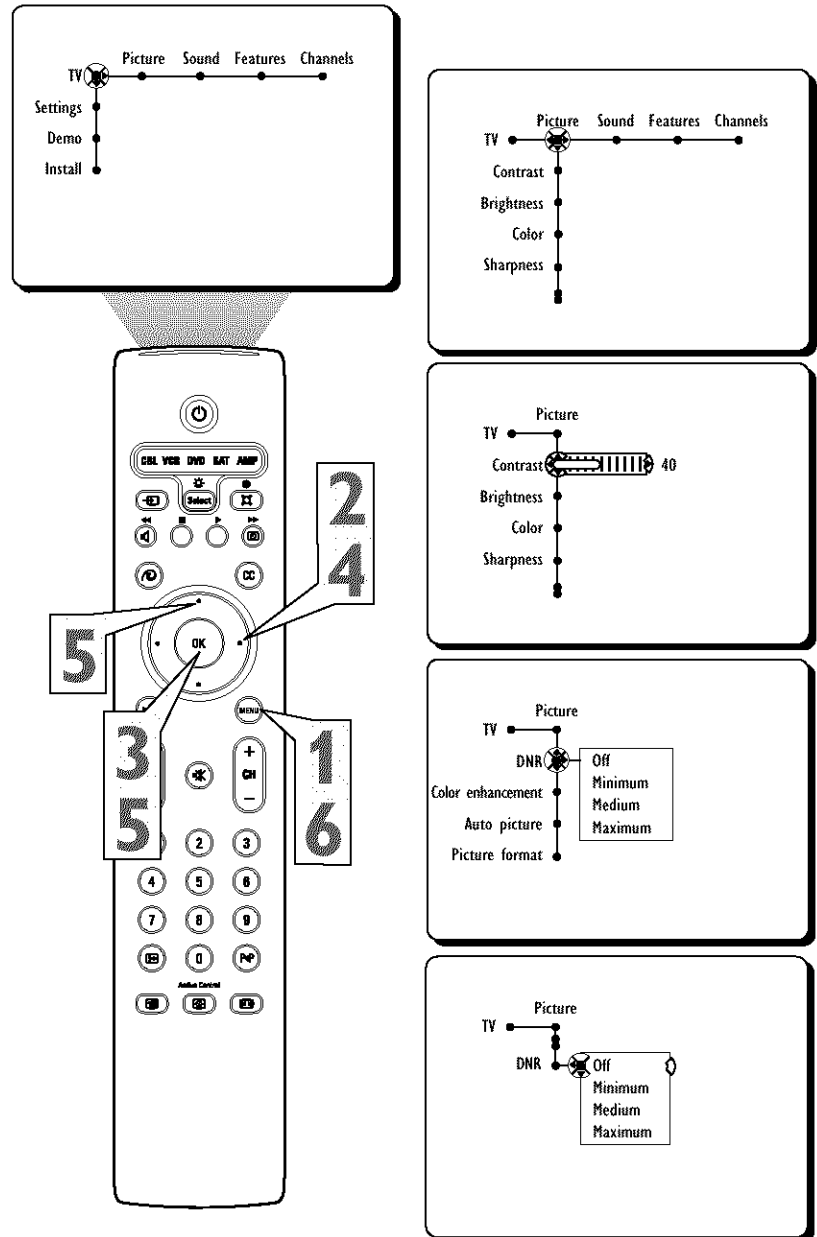


HOW TO USE THE DNR (DYNAMIC NOISE REDUCTION) CONTROL



Due to many reasons, such as poor cable reception, the picture can sometimes appear slightly "speckled" (an indication of signal noise in the picture). The DNR (Dynamic Noise Reduction) control can help eliminate this type of interference and improve the quality of the picture.

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button to highlight PICTURE.
- 3** Press the **CURSOR DOWN** button repeatedly until the DNR control is highlighted.
- 4** Press the **CURSOR RIGHT** button to enter the DNR sub-menu.
- 5** Press the **CURSOR UP** or **DOWN** button to select one of the DNR options; OFF, MINIMUM, MEDIUM, or MAXIMUM.
- 6** Press the **MENU** button to remove the onscreen menu from the TV screen.





HOW TO USE THE COLOR ENHANCEMENT CONTROL

The Color Enhancement control can dramatically improve the picture quality of pictures with a high saturation of color. This control works in four ways;

Dynamic Blue Stretch corrects the white colors toward a more bluish colored white without changing the other colors. Improves the sharpness of the picture.

Green Enhancement offers a more saturated green color in case of low green broadcasts giving landscapes a fresher and brighter look.

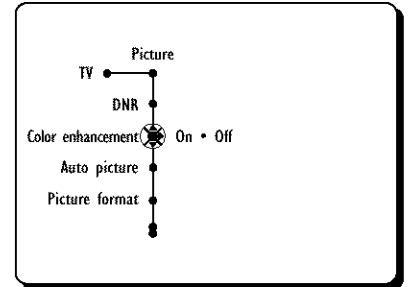
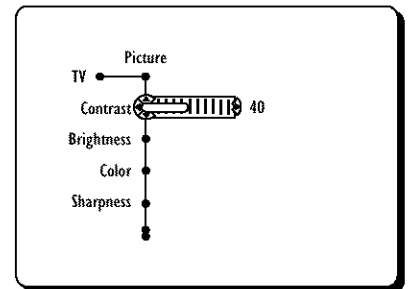
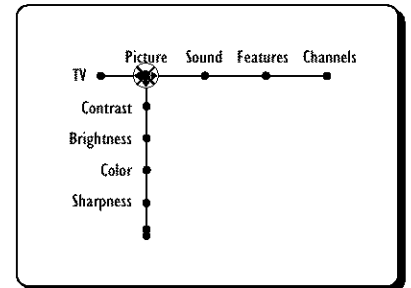
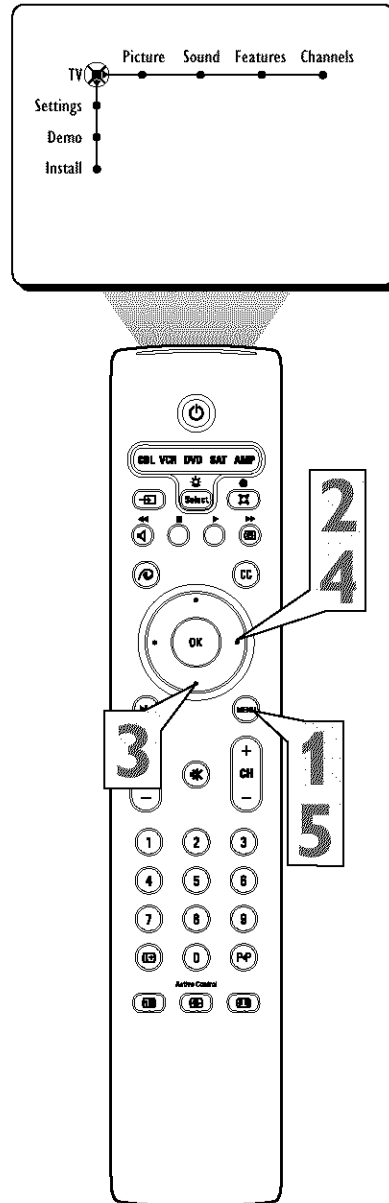
Color Dependent Sharpness improves the sharpness of the picture through the color information. Gives the picture more details especially in red colors.

Skin-tone Correction adjusts for over saturation of red that often appears in skin-tones.

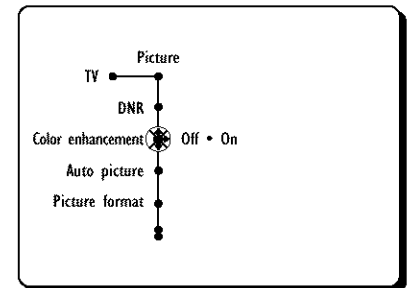
- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button to highlight PICTURE.
- 3** Press the **CURSOR DOWN** button repeatedly until the **COLOR ENHANCEMENT** control is highlighted.
- 4** Press the **CURSOR RIGHT** button to turn the Color Enhancement control ON or OFF.
- 5** Press the **MENU** button to remove the onscreen menu from the TV screen.

HELPFUL HINT

The Color Enhancement control is not available for use with the AV 3 or AV 4 Inputs.



OR



HOW TO USE THE AUTO PICTURE CONTROL

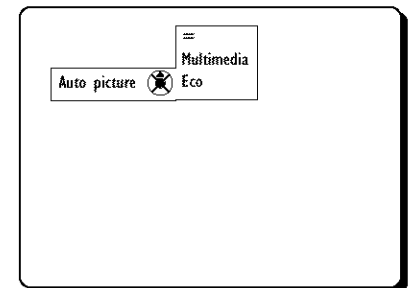
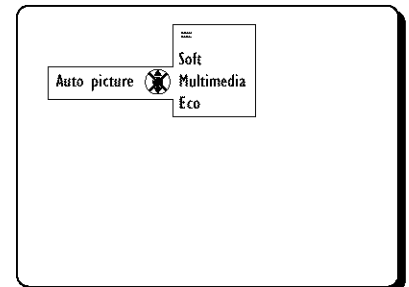
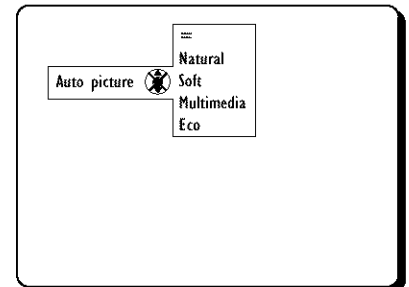
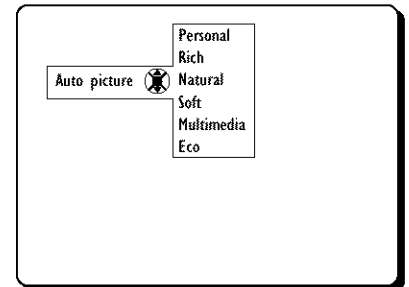
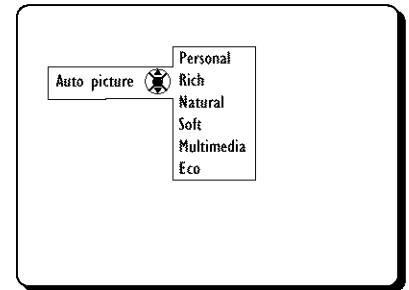
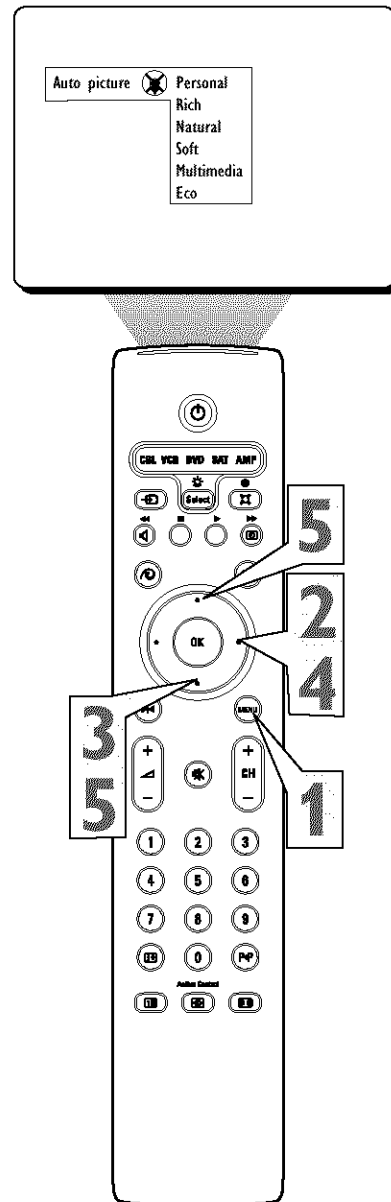


Whether you're watching a movie or a video game, your TV has automatic video control settings that will match with your current program source or content. AutoPicture™ quickly resets your TV's video controls for a number of different types of programs and viewing conditions that you may have in your home. The Personal AutoPicture™ settings are the same as the PICTURE control adjustments made within the onscreen menu.

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button to highlight picture.
- 3** Press the **CURSOR DOWN** button repeatedly until the Auto Picture Control is highlighted.
- 4** Press the **CURSOR RIGHT** button to enter the Auto Picture Sub Menu.
- 5** Press the **CURSOR RIGHT** button to select either PERSONAL, RICH, NATURAL, SOFT, MULTIMEDIA or ECO picture settings.

After your selection is made the onscreen menu will disappear from the TV screen within a couple of seconds.

NOTE: The PERSONAL setting and the PICTURE options within the onscreen menu are the same. This is the only option in AutoPicture™ that can be changed. To adjust these settings, use the PICTURE options within the onscreen menu. All other settings are set up at the factory during production and cannot be adjusted.



HELPFUL HINT

PERSONAL – picture settings are based on your personal choice or viewer control preferences.

RICH – emphasizes very vibrant colors. (Good choice for AV mode used in a brightly lit room.)

NATURAL – sets picture controls at mid-level settings for consistent viewing conditions.

SOFT – emphasizes warm colors. (Good choice for dimly lit room. Gives a cinema-like effect when the light is switched off.)

Note: Can also be used with Pixel Plus control (see page 17) to soften the appearance of harsh video replay screen elements that can show with certain types of DVD playback conditions.

MULTIMEDIA – emphasizes soft colors. (Good choice for playing computer games, etc.)

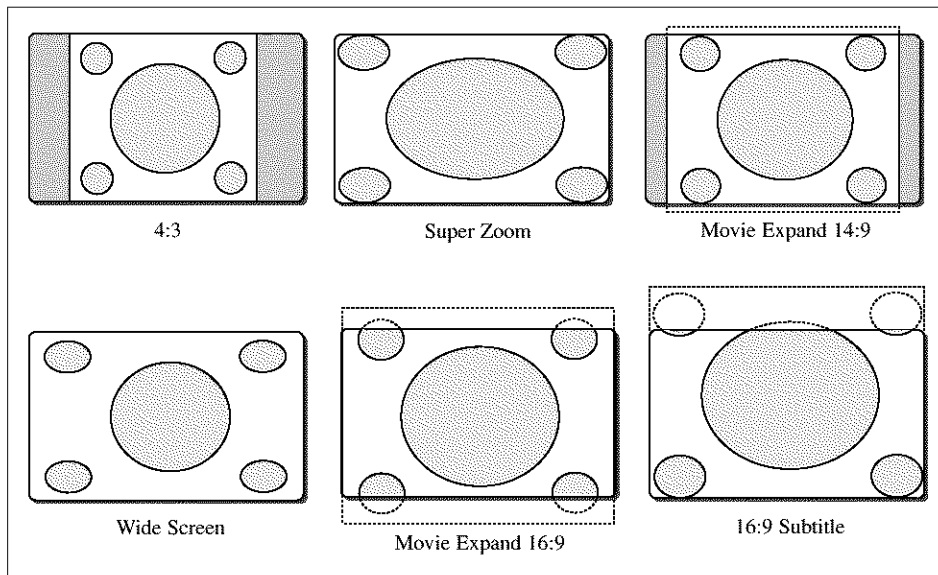
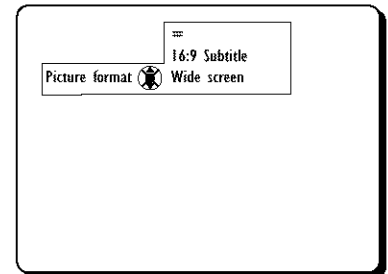
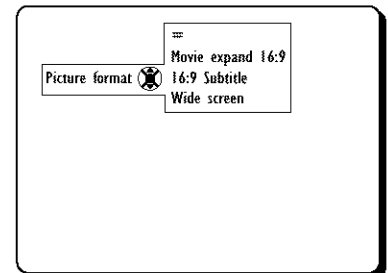
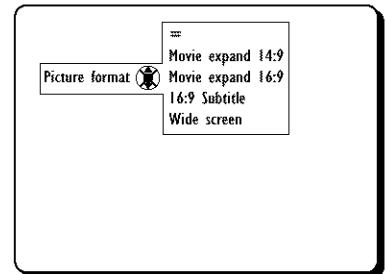
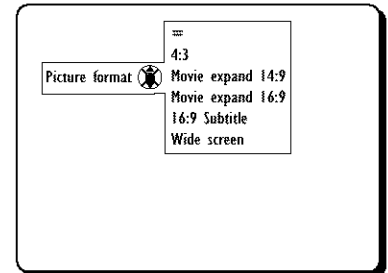
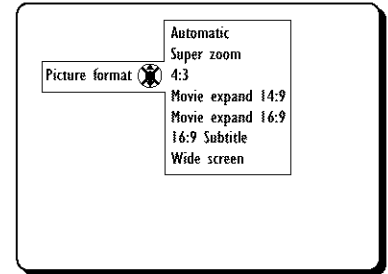
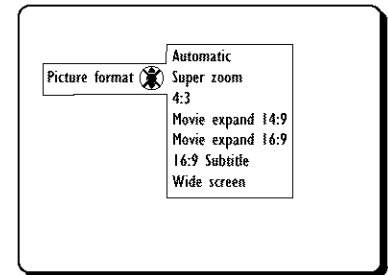
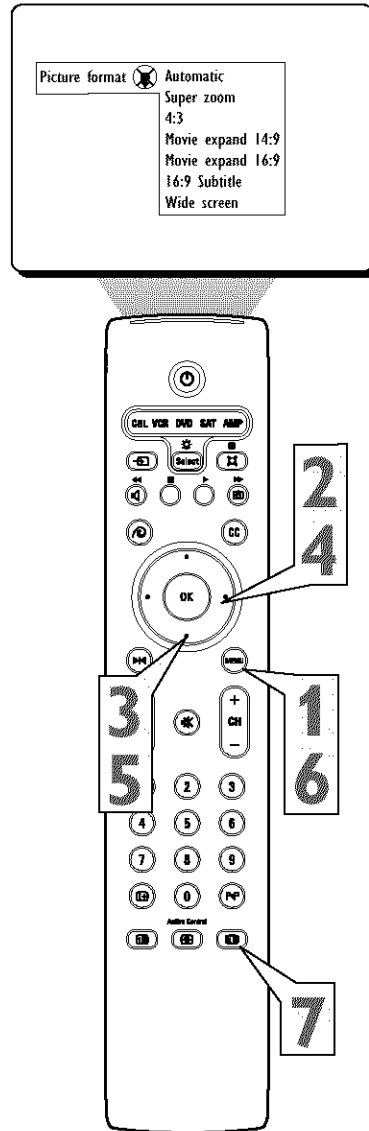
ECO – reduces Brightness and Contrast settings to low levels as a power consumption saving measure.



HOW TO USE THE PICTURE FORMAT CONTROL

You can change the screen format size to match the type of program you're watching. Select the normal 4:3 aspect ratio or a variety for wide screen formats.

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button to highlight PICTURE.
- 3** Press the **CURSOR DOWN** button repeatedly until the Picture Format control is highlighted.
- 4** Press the **CURSOR RIGHT** button to enter the Picture Format sub-menu options.
- 5** Press the **CURSOR DOWN** button to select one of the seven screen formats. Choose from Automatic, Super Zoom, 4:3, Movie Expand 4:3, Movie Expand 16:9, 16:9 Subtitle, or Wide Screen.
- 6** Press the **MENU** button to remove the onscreen menu from the TV screen.
- 7** Note: The Picture format onscreen menu can also be entered by pressing the Picture Format button on the remote control.





Besides the normal volume level control, your TV also has a headphone volume control. This control can be adjusted when using headphones without having to adjust the main volume control for the TV cabinet speakers.

To control the television volume:

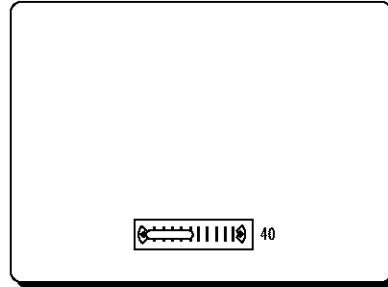
- 1 Press the **VOL +** button on the remote control to increase the television volume level.
- 2 Press the **VOL -** button on the remote control to decrease the television volume level.

Note: The Volume level can also be adjusted within the onscreen menu. Select the Sound menu and cursor down to the Volume control. Use the Cursor Left and Right to adjust.

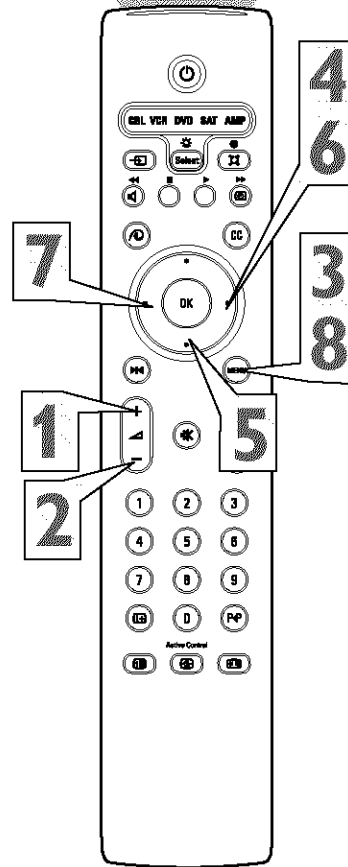
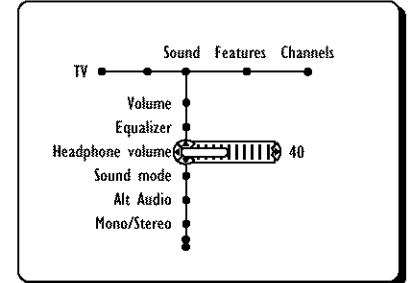
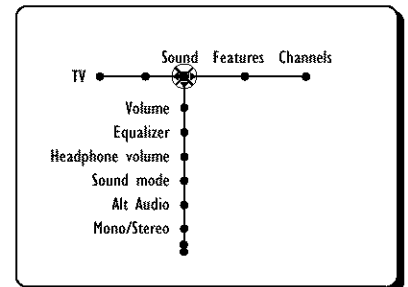
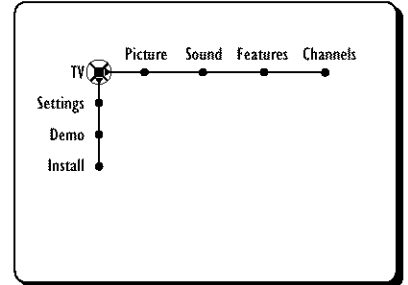
To control the Headphone volume:

- 3 Press the **MENU** button on the remote control to display the onscreen menu.
- 4 Press the **CURSOR RIGHT** button to highlight **SOUND**.
- 5 Press the **CURSOR DOWN** button repeatedly until the Headphone Volume control is highlighted.
- 6 Press the **CURSOR RIGHT** button to increase the volume level being heard through the headphones.
- 7 Press the **CURSOR LEFT** button to decrease the volume level being heard through the headphones.
- 8 Press the **MENU** button on the remote control to remove the onscreen menu from the TV screen.

TELEVISION VOLUME



HEADPHONE VOLUME





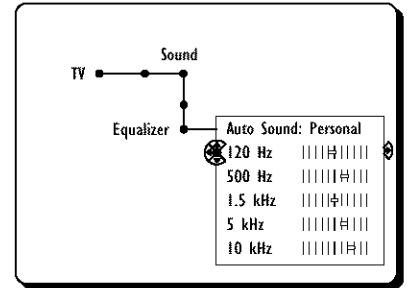
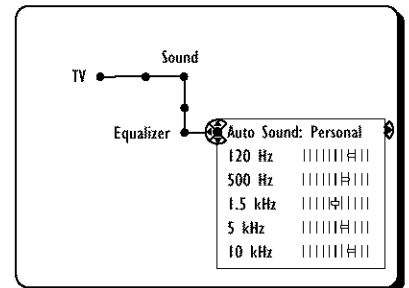
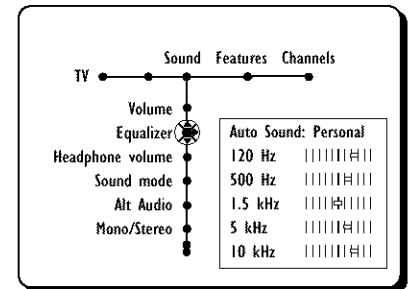
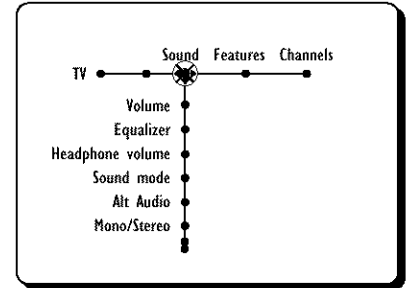
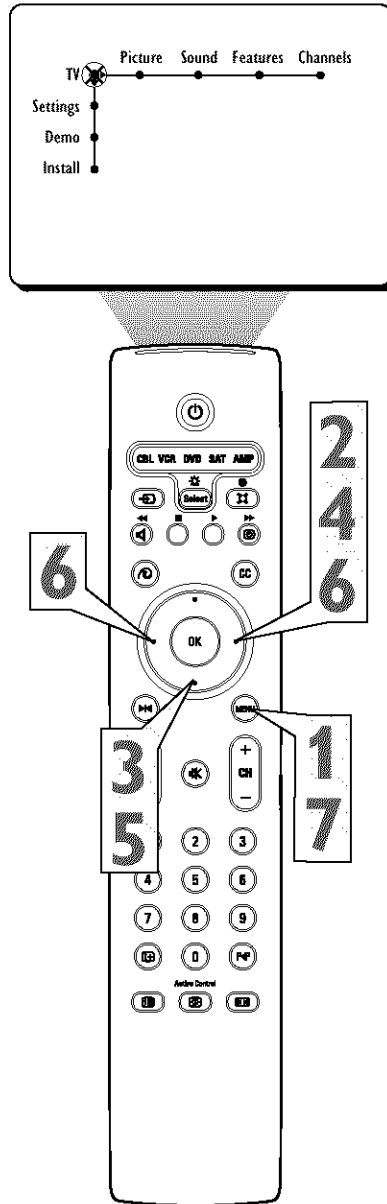
USING THE TV EQUALIZER CONTROL

You can change the dynamics of the sound being heard through the TV by using the Equalizer control. The Equalizer control contains slider controls to adjust or change only the Personal settings. If any of the other factory pre-defined settings are changed, they will become the new Personal settings.

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight **SOUND**.
- 3** Press the **CURSOR DOWN** button repeatedly until the Equalizer control is highlighted.
- 4** Press the **CURSOR RIGHT** button to enter the Equalizer sub-menu options. Continue to press the **CURSOR RIGHT** to select one of the options; Personal, Speech, Music, Movie, or Multimedia.
- 5** The Personal setting can be changed. Once an option has been chosen, **press the CURSOR DOWN button** to highlight one of the settings.
- 6** Press the **CURSOR LEFT** or **RIGHT** button to adjust the slider control to the desired position.

Note: Even if an option other than Personal has been chosen, changing any of the values will default it to the new Personal setting.

- 7** Press the **MENU** button when finished to remove the onscreen menu from the TV screen.



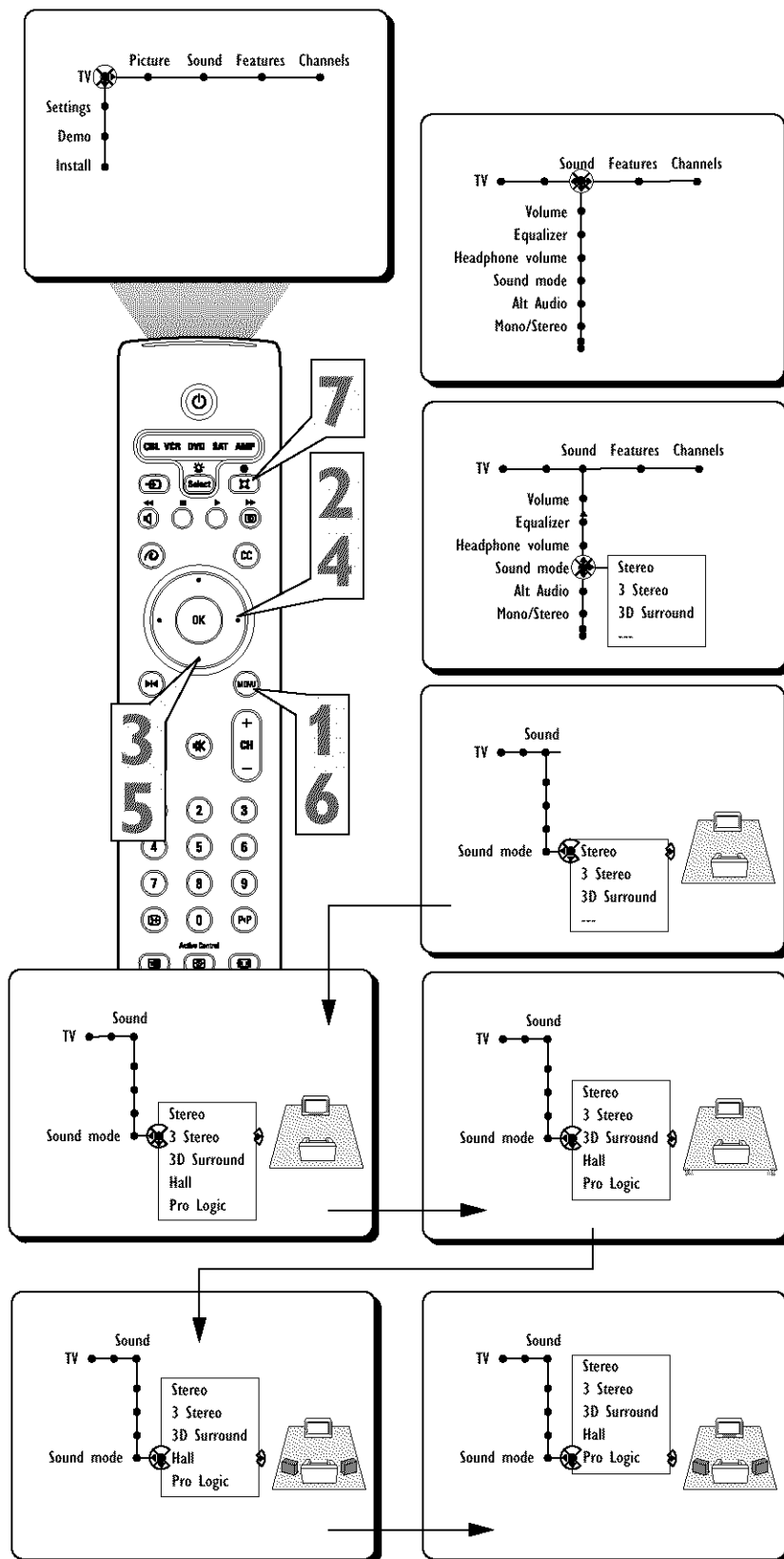
HOW TO USE THE SOUND MODE CONTROL



The Sound Mode control allows you to place the TV sound into one of five modes; Stereo, 3 Stereo, 3D Surround, Hall, or Pro Logic.

The following instructions show how to place the TV into one of these sound modes.

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight **SOUND**.
- 3** Press the **CURSOR DOWN** button repeatedly until the Sound Mode control is highlighted.
- 4** Press the **CURSOR RIGHT** button to enter the Sound Mode sub-menu options.
- 5** Press the **CURSOR DOWN** button to select one of the five options; Stereo, 3 Stereo, 3D Surround, Hall, or Pro Logic.
 - Stereo** - Reproduces only left and right front speaker sound. If you are receiving a stereo broadcast, you will hear left and right channel stereo sound.
 - 3 Stereo** - Gives stereo sound through the left, right, and center front speakers.
 - 3D Surround** - Gives the experience of Dolby Surround Pro Logic without having rear speakers connected or activated.
 - Hall** - Creates a "Hall" effect through the TV left, right, and rear speakers. Will add simulated surround sound to any broadcast which is not encoded with Dolby Surround, or to a mono signal broadcast.
 - Pro Logic** - For broadcasts encoded with Dolby Surround, the left, right center and rear speakers will reproduce the Dolby Surround Pro Logic audio.
- 6** Press the **MENU** button when finished to remove the onscreen menu from the TV screen.
- 7** Pressing the **SOUND MODE** button on the remote control will display a simplified menu for selecting the proper sound mode.



*Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.



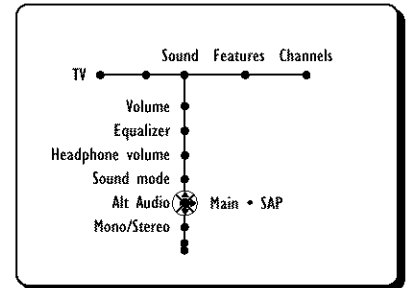
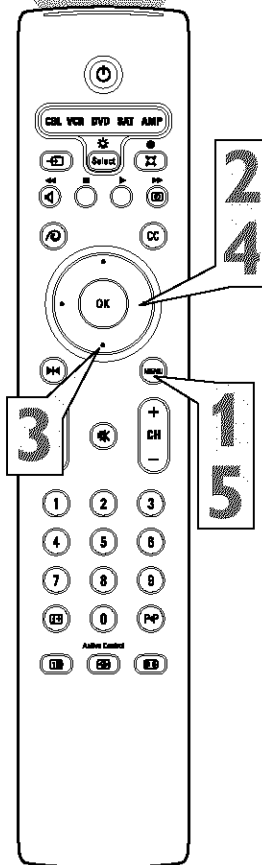
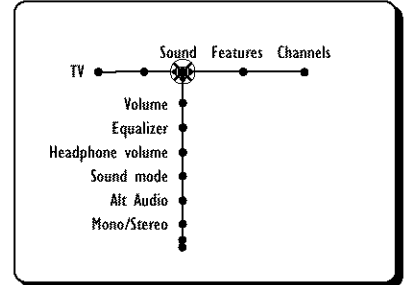
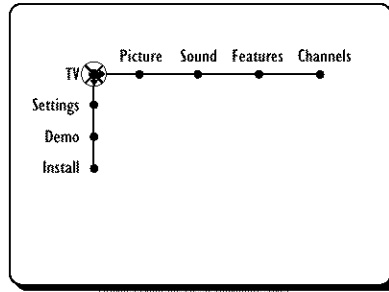
HOW TO USE THE ALTERNATE AUDIO CONTROL (SAP)

For broadcasts that contain SAP (Secondary Audio Program) information the Alt Audio Control can be set to ON. SAP is an additional part of the stereo broadcast system. Sent as a third audio channel, SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes.

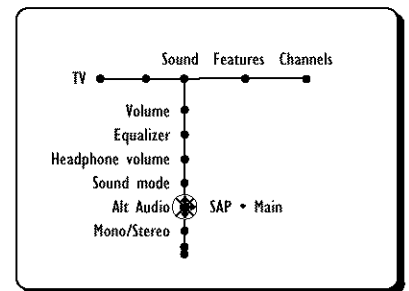
If a SAP signal is not present with a selected program, the Alt Audio option cannot be selected and will appear grayed out in the onscreen menu.

If SAP is available on the tuned channel:

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight **SOUND**.
- 3** Press the **CURSOR DOWN** button repeatedly until the Alt Audio control is highlighted.
- 4** Press the **CURSOR RIGHT** button to toggle and select either Main or SAP.
- 5** Press the **MENU** button when finished to remove the onscreen menu from the TV screen.



OR



HOW TO SET THE TV FOR STEREO PROGRAMMING

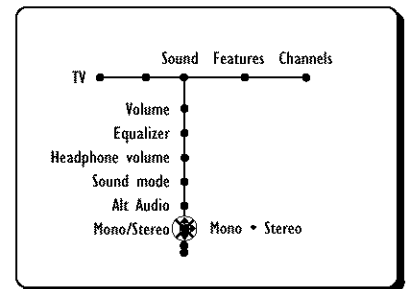
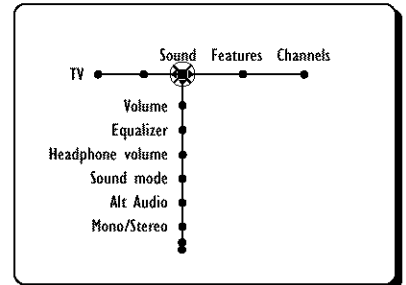
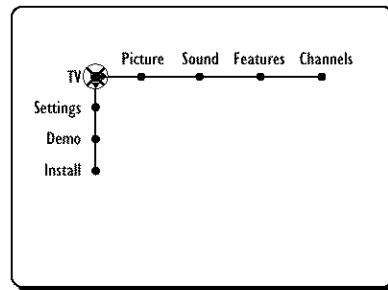


You can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

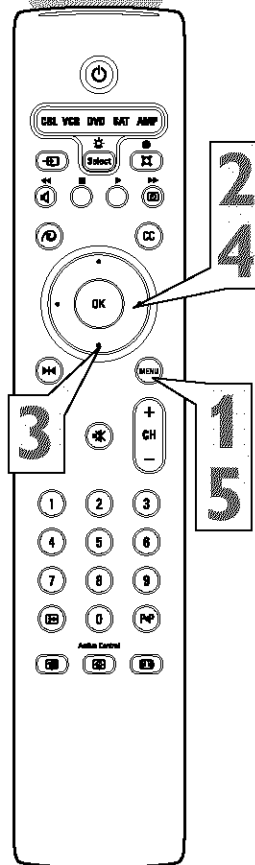
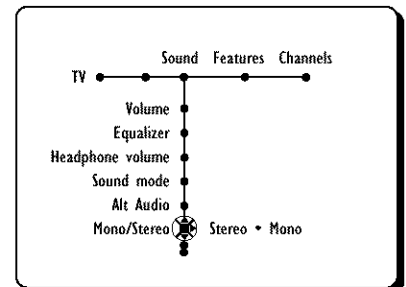
- 1 Press the **MENU** button on the remote to display the onscreen menu.
- 2 Press the **CURSOR RIGHT** button repeatedly to highlight **SOUND**.
- 3 Press the **CURSOR DOWN** button repeatedly until the Mono/Stereo control is highlighted.
- 4 Press the **CURSOR RIGHT** button to toggle and select either Mono or Stereo.

Note: If the signal being received is in mono, it can not be set to Stereo. However, if the signal being received is in Stereo, the TV can be placed in the Mono mode. (If set to the Mono control position, remember to return the Mono/Stereo Control back to Stereo when using the TV with stereo programming.)

- 5 Press the **MENU** button when finished to remove the onscreen menu from the TV screen.



OR

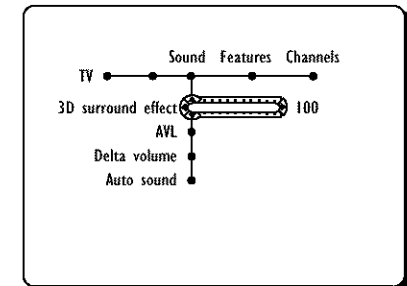
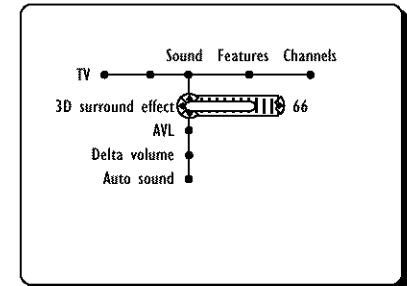
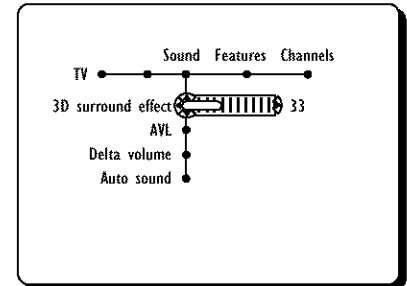
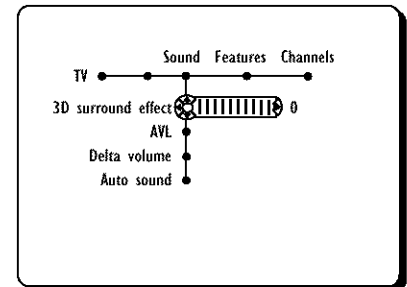
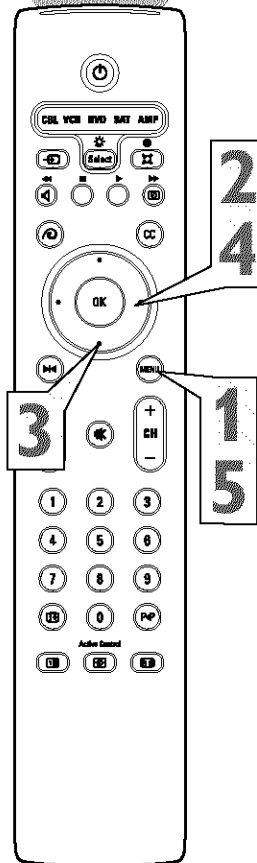
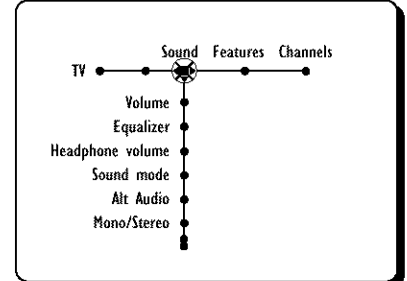
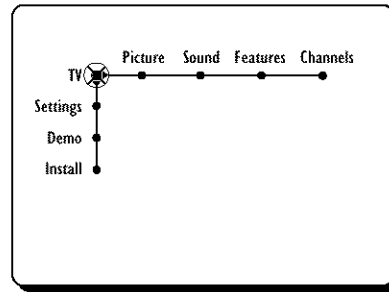




HOW TO USE THE 3D SURROUND EFFECT CONTROL

The 3D Surround Effect Control helps to widen the effect being heard through the television speakers. This control is only available if the television has been placed in the 3D Surround mode.

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight **SOUND**.
- 3** Press the **CURSOR DOWN** button repeatedly until the 3D Surround Effect control is highlighted.
- 4** Press the **CURSOR RIGHT** button to increase the surround effect. Choose a value of 0, 33, 66, or 100.
- 5** Press the **MENU** button when finished to remove the onscreen menu from the TV screen.

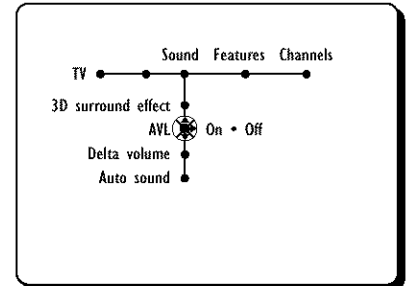
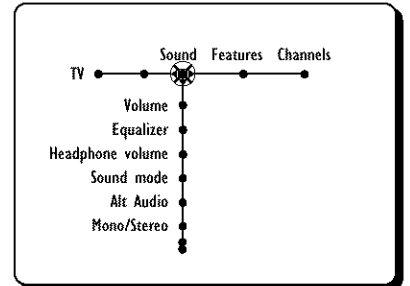
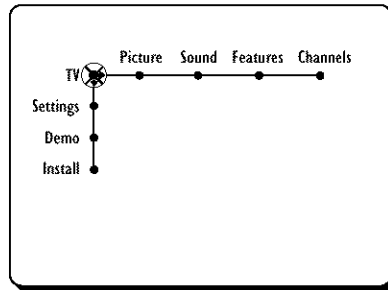


HOW TO USE THE AVL CONTROL

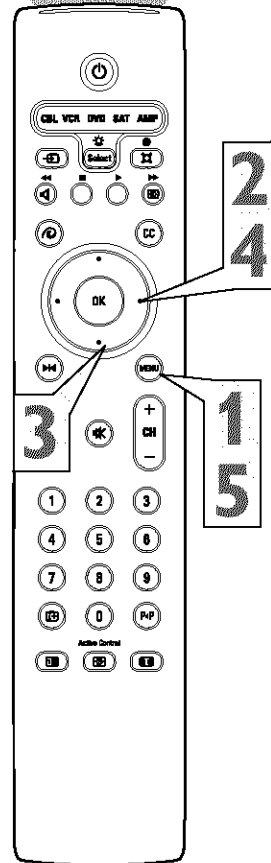
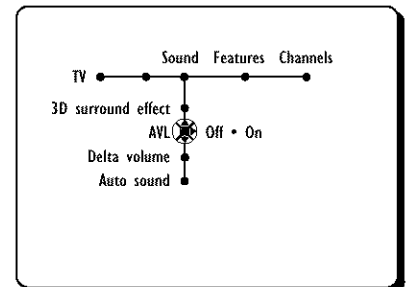


In most cases, the volume levels coming from broadcast programming or commercials are never the same. With the AVL (Audio Volume Leveler) control turned ON, you can have the TV level out sound that is being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks. To turn the AVL ON, follow these steps.

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight **SOUND**.
- 3** Press the **CURSOR DOWN** button repeatedly until **AVL** is highlighted.
- 4** Press the **CURSOR RIGHT** button to toggle the control ON or OFF.
- 5** Press the **MENU** button to remove the menu from the screen.



OR

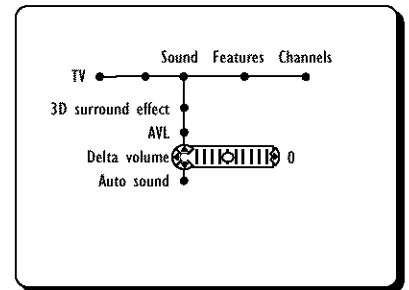
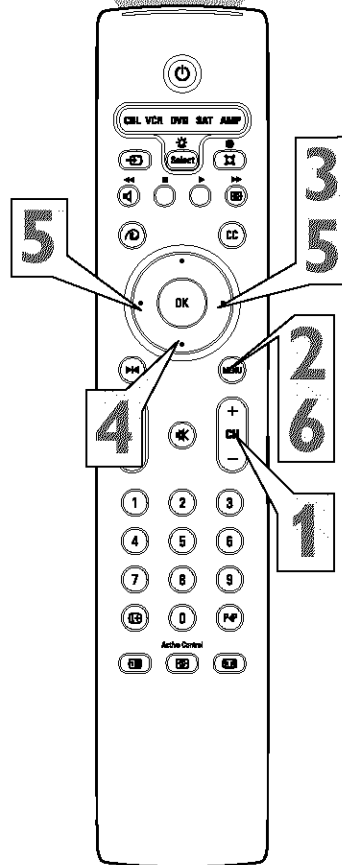
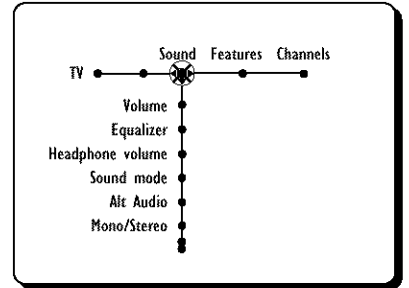
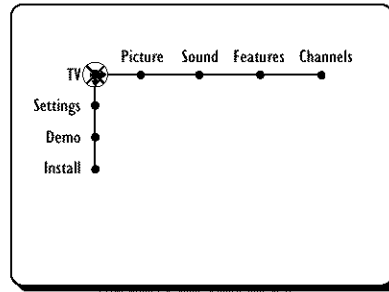




HOW TO USE THE DELTA VOLUME CONTROL

The volume level coming from channel to channel and broadcast to broadcast can vary widely. The Delta Volume Control will allow the volume to be increased for channels with weaker audio signals while allowing other channels with stronger signals to be reduced some. When the Delta Volume Control is adjusted or changed, it will only effect the currently tuned channel. The TV will store the setting for that channel within its memory and remember it when the channel is tuned again.

- 1** Press the **CH + or -** button on the remote control to tune a specific channel.
 - 2** Press the **MENU** button on the remote control to show the onscreen menu.
 - 3** Press the **CURSOR RIGHT** button once to highlight **SOUND**.
 - 4** Press the **CURSOR DOWN** button repeatedly until Delta Volume is highlighted.
 - 5** Press the **CURSOR LEFT** button to decrease the overall volume, or **press CURSOR RIGHT** button to increase the overall volume for the tuned channel.
- Repeat steps for other channels you wish to adjust the Delta Volume.
- 6** Press the **MENU** button to remove the onscreen menu from the TV screen.



HOW TO USE THE AUTO SOUND CONTROL



AutoSound™ allows you to select from four factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The four factory-set controls (Speech, Music, Movie, or Multimedia) enable you to tailor the TV sound so as to enhance the particular program you are watching. Follow these steps to select any of the options.

- 1** Press the **MENU** button on the remote to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button to highlight **SOUND**.
- 3** Press the **CURSOR DOWN** button repeatedly until the Auto Sound Control is highlighted.
- 4** Press the **CURSOR RIGHT** button to enter the Auto Sound Sub menu.
- 5** Press the **CURSOR UP** or **DOWN** button to select the options: Personal, Speech, Music, Movie, or Multimedia.

Once your selection has been made, the onscreen menu will disappear from the TV screen within few seconds.

The Auto Sound options can also be selected through the **SOUND** menu options within the onscreen menu.

CHECK IT OUT

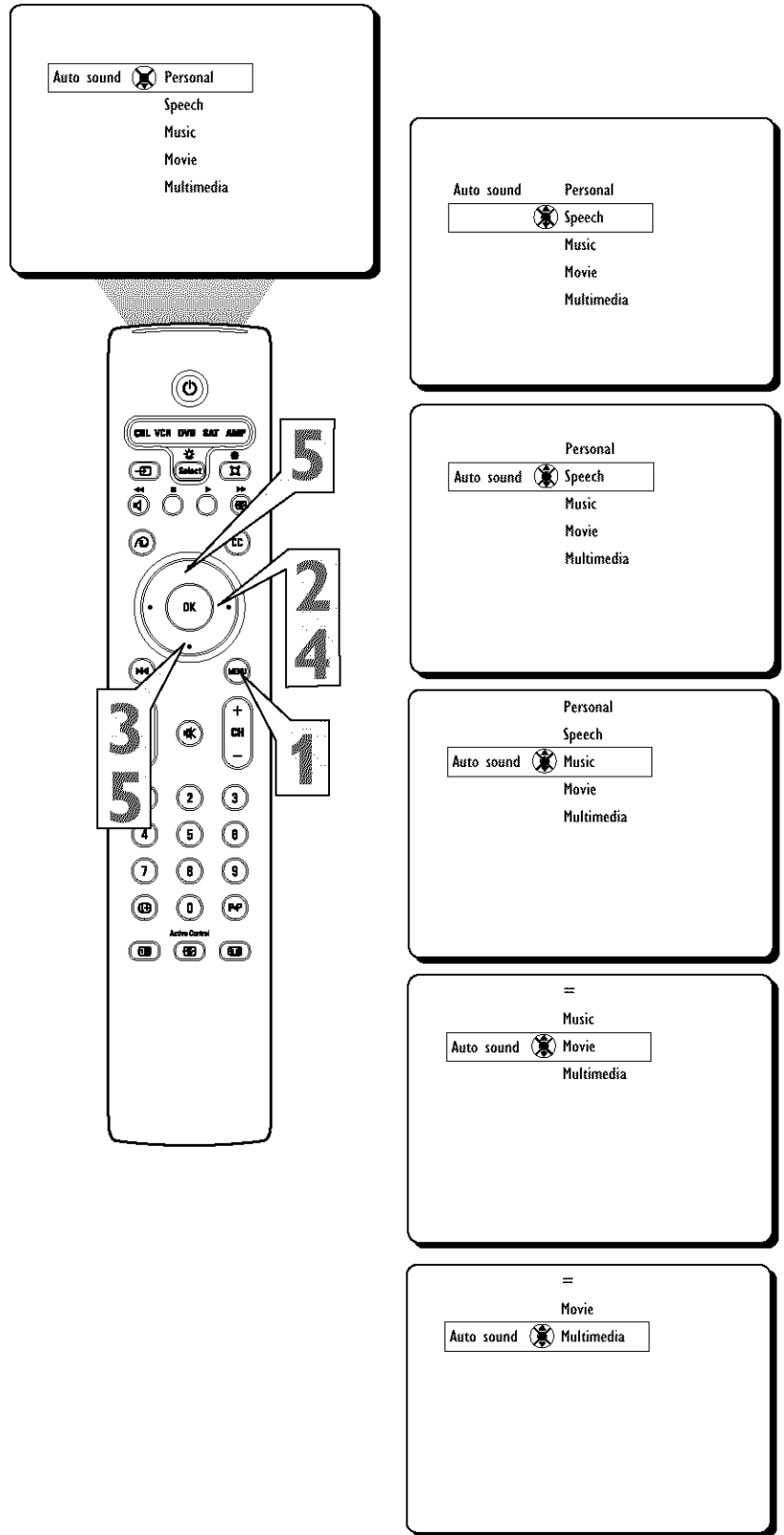
PERSONAL – presents the TV's sound according to the settings you make within the sound menu.

SPEECH – brings voices to the forefront and emphasizes them. Moves music to the background.

MUSIC – emphasizes music over voices.

MOVIE – provides a balance between voices and music.

MULTIMEDIA – provides sound balance best suited for gaming consoles, or interactive media.





HOW TO USE THE CLOSED CAPTIONING CONTROL

Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.

Follow steps 1 through 7 to select a Closed Caption option:

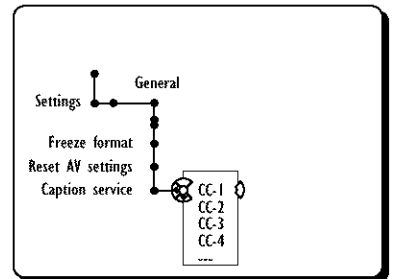
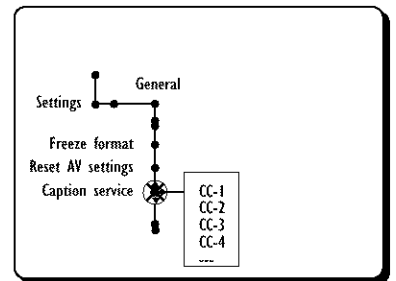
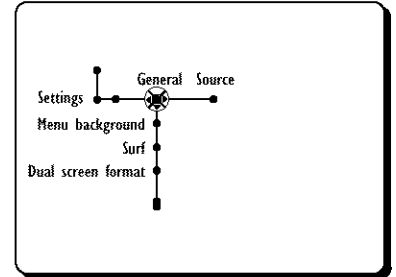
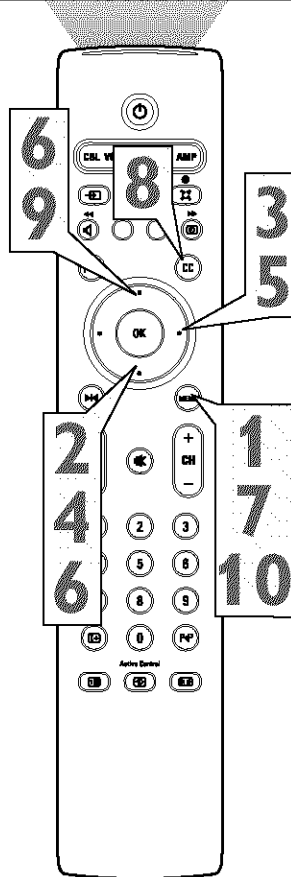
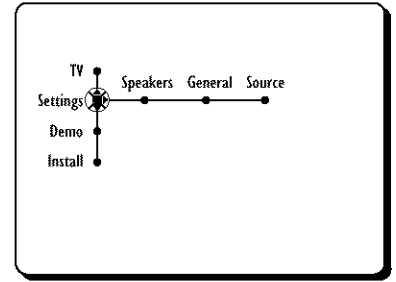
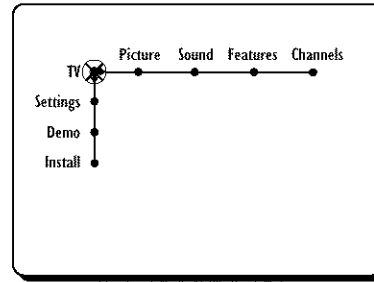
- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR DOWN** button repeatedly to highlight **SETTINGS**.
- 3** Press the **CURSOR RIGHT** button repeatedly to highlight **General**.
- 4** Press the **CURSOR DOWN** button repeatedly to highlight **Caption Service**.
- 5** Press the **CURSOR RIGHT** button to enter the Closed Captions sub-menu.
- 6** Press the **CURSOR UP** or **DOWN** button to highlight one of the caption modes: CC-1, CC-2, CC-3, CC-4, T-1, T-2, T-3, or T-4.

Note: Text Modes (T1-T4) appear onscreen as boxes and may block portions of the TV screen.

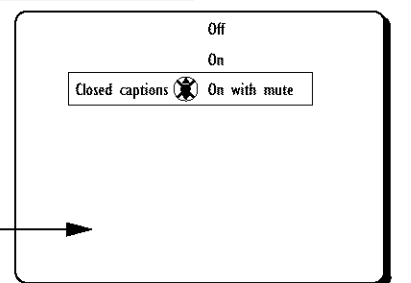
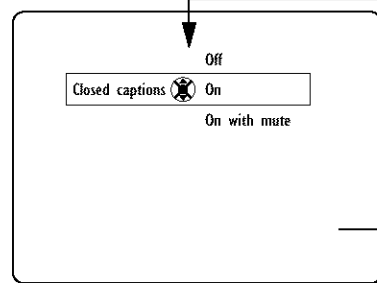
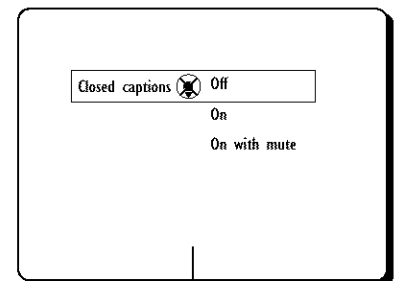
- 7** Press the **MENU** button to remove the onscreen menu from the TV screen.

Follow steps 8 through 13 to turn the Closed Captions Control ON or OFF.

- 8** Press the **CC** button on the remote control.
- 9** Press the **CURSOR UP** or **DOWN** button repeatedly to select **OFF**, **ON**, or **ON with Mute**.
OFF - Closed Captioning service will not be displayed on the TV screen.
ON - Closed Captioning information (if available) will display on the TV screen.
ON with Mute - Closed Captioning information will turn On only when the MUTE button is pressed. Turns the closed captioning information OFF when the TV volume is restored.
- 10** Press the **MENU** button on the remote to remove the onscreen display from the TV screen.



Menus to Turn the Closed Captions Control ON or OFF



HOW TO SET THE SLEEP TIMER CONTROL



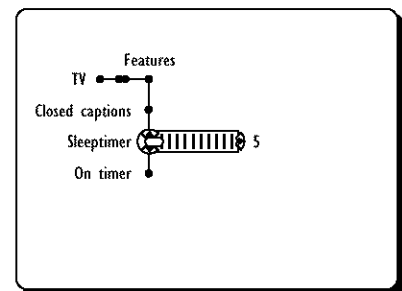
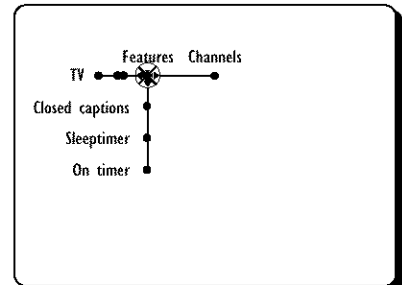
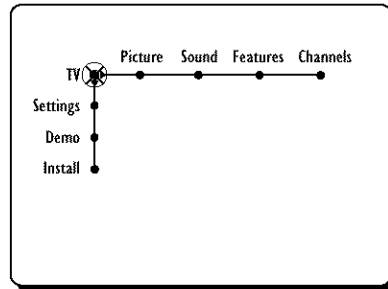
Have you ever fallen asleep in front of the TV, only to have it wake you up at two in the morning with a test pattern sound screeching in your ears? Well, your TV can enable you to avoid that discomfort by automatically turning itself off. With the Sleptimer control, you can set a timer to automatically switch the TV OFF after a period of time you choose (5-minutes up to 180 minutes in 5-minute increments).

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly until **FEATURES** is highlighted.
- 3** Press the **CURSOR DOWN** button repeatedly to highlight **Sleptimer**.
- 4** Press the **CURSOR RIGHT** button to set the Sleptimer in 5-minute increments starting at 5-minutes up to 180-minutes.
- 5** Press the **MENU** button to remove the onscreen menu from the TV screen.

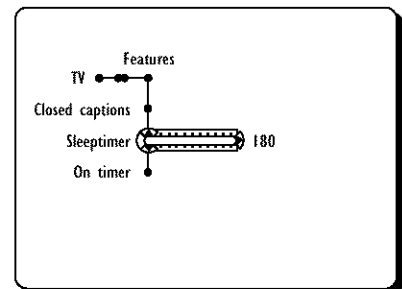
An onscreen countdown will appear during the last minute before the TV shuts itself off. At this time you may cancel the sleptimer setting by pressing the OK button on the remote control.

HELPFUL HINT

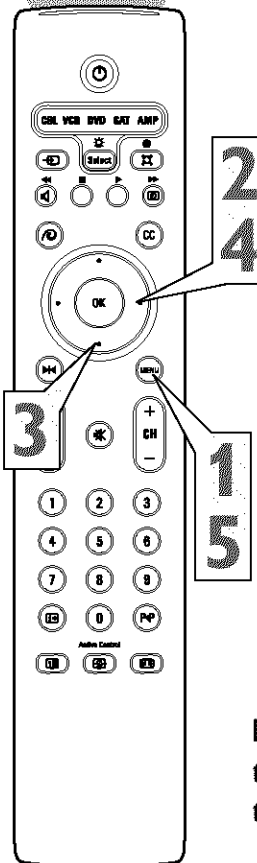
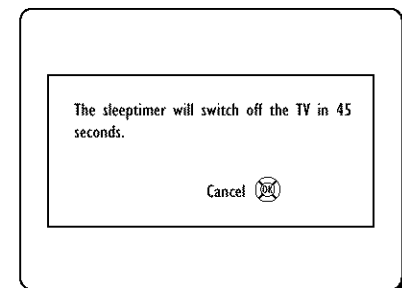
To see how many minutes remain before the TV shuts itself off, press the INFO+ button. A Sleep Timer setting can be cancelled by pressing the OK button during the last minute of the operation.



Up To



During the last minute of a Sleptimer setting the TV will display a countdown screen where the setting can be cancelled

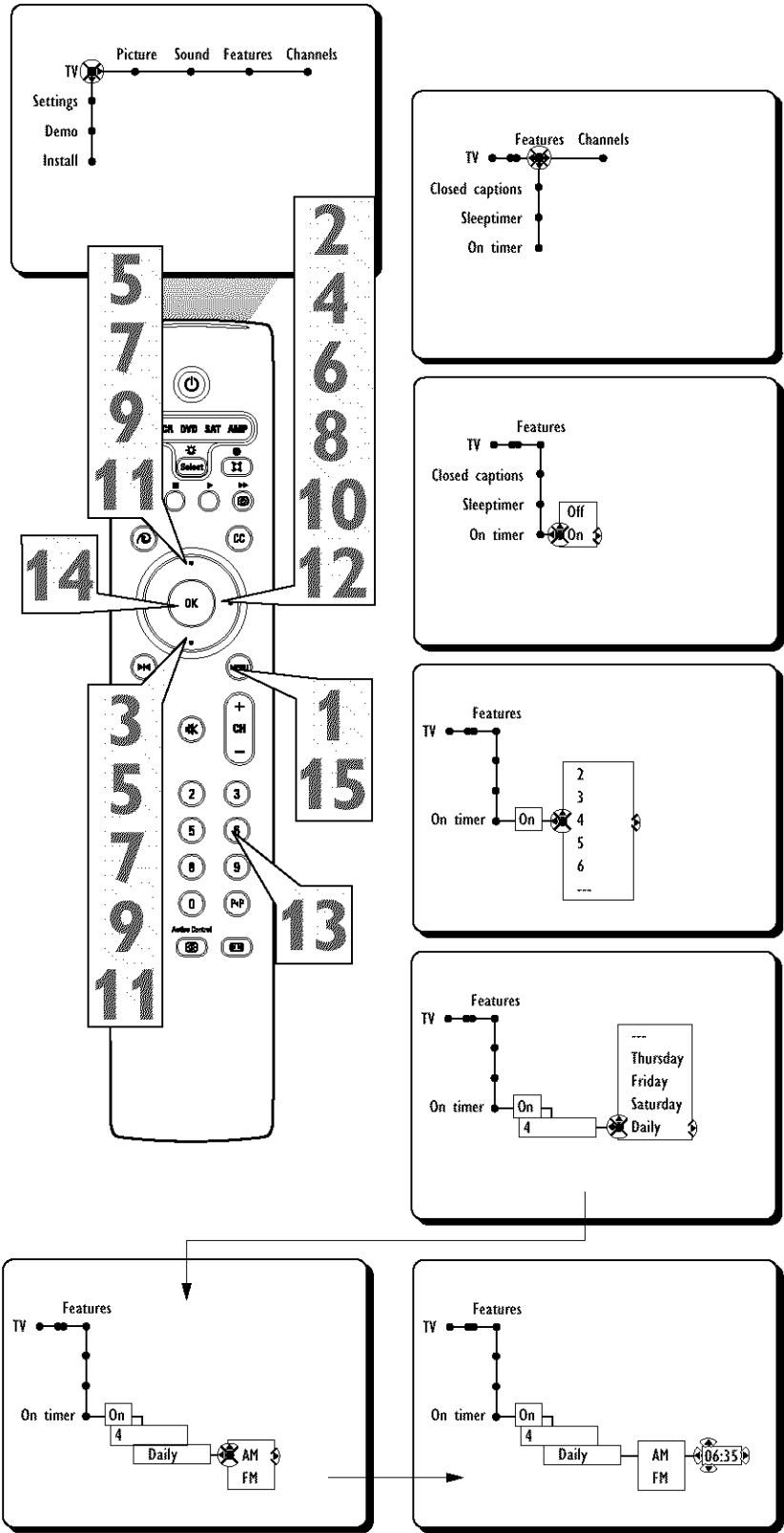




HOW TO USE THE ON-TIMER CONTROL

The On-Timer Control allows you to set a time to power the TV on automatically at a certain time of day. The On-Timer can be set to work once, or daily at the same time.

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight **FEATURES**.
- 3** Press the **CURSOR DOWN** button repeatedly to highlight the **On Timer** control.
- 4** Press the **CURSOR RIGHT** button to enter the sub-menu.
- 5** Press the **CURSOR UP** or **DOWN** button to select **ON**.
- 6** Press the **CURSOR RIGHT** button to shift the menu to the start channel sub-menu.
- 7** Press the **CURSOR UP** or **CURSOR DOWN** button to select the channel you would like the TV to tune to when it turns on.
- 8** Press the **CURSOR RIGHT** button to shift the menu to the **Day/Daily** sub-menu.
- 9** Press the **CURSOR UP** or **DOWN** button to select the day to turn on or select **Daily**.
- 10** Press the **CURSOR RIGHT** button to enter the **AM/PM** sub-menu.
- 11** Press the **CURSOR UP** or **DOWN** button to select **AM** or **PM**.
- 12** Press the **CURSOR RIGHT** button to enter the start time.
- 13** Press the **NUMBERED** buttons to enter the time. Use 0 first if entering a signal digit. (i.e.; 0, 1, 3, 0 for 1:30)
- 14** Press the **OK** button to confirm.
- 15** Press the **MENU** button to remove the onscreen menu from the TV screen.



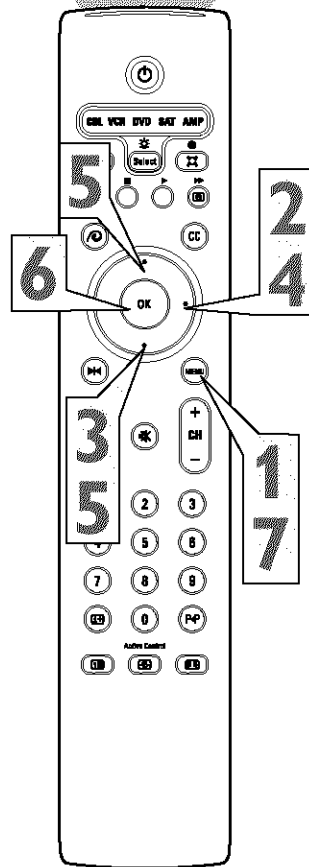
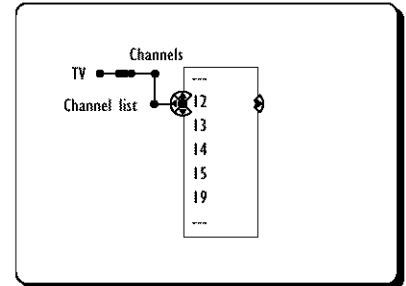
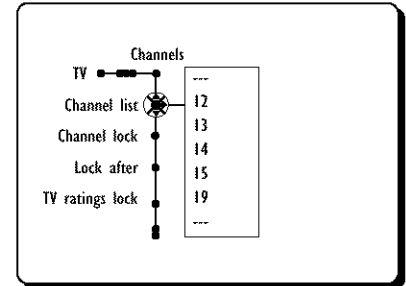
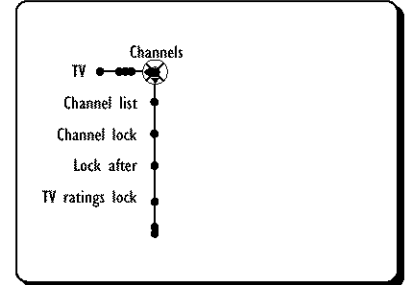
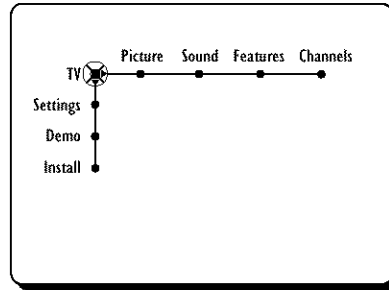
HELPFUL HINT
Remember, be sure to press 0 first and then the hour number for single-digit entries.

HOW TO USE THE CHANNEL LIST CONTROL



The Channel List Control shows all the available channels that the Auto Programming placed in the TV memory. The channels can be selected from this list.

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight CHANNELS.
- 3** Press the **CURSOR DOWN** button to highlight the Channel List control.
- 4** Press the **CURSOR RIGHT** button to enter the Channel List sub-menu.
- 5** Press the **CURSOR UP** or **DOWN** button to highlight a specific channel from the list.
- 6** Press the **OK** button. The television will tune to the highlighted channel.
- 7** Press the **MENU** button to remove the onscreen menu from the TV screen.





HOW TO USE THE CHANNEL LOCK CONTROL

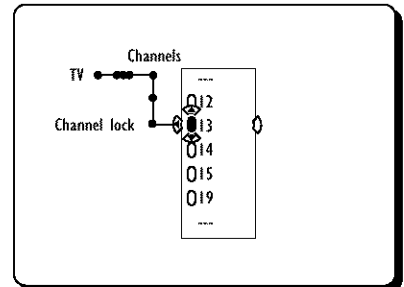
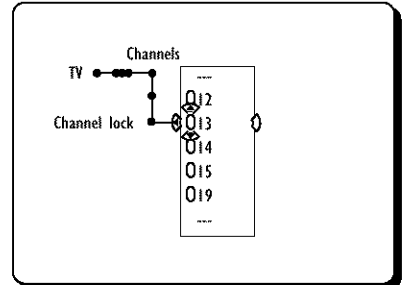
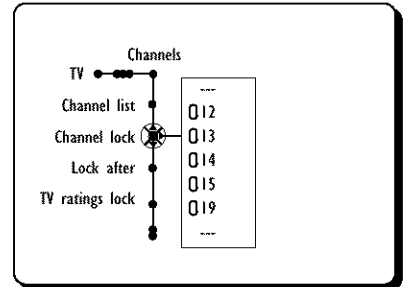
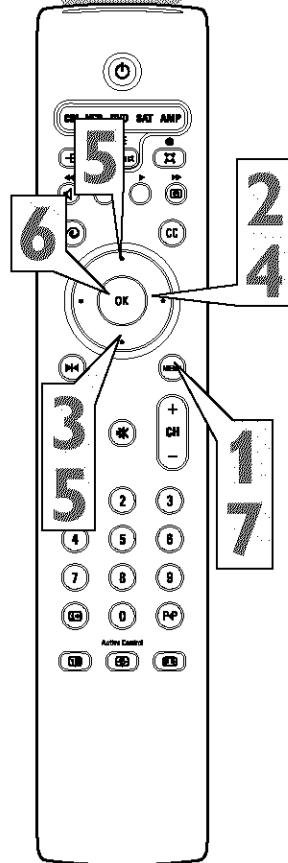
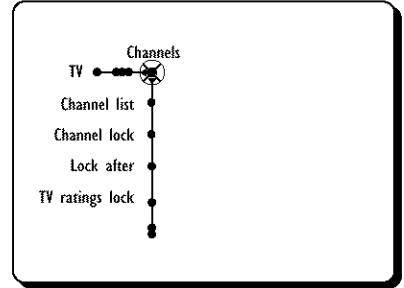
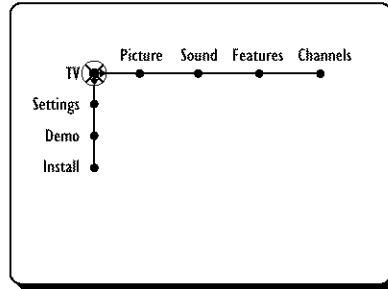
For various reasons you might want to block the programming on a specific channel or series of channels. The Channel Lock Control will allow individual channels to be "locked", blocking the programming on that channel.

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
 - 2** Press the **CURSOR RIGHT** button repeatedly to highlight CHANNELS.
 - 3** Press the **CURSOR DOWN** button repeatedly to highlight the Channel Lock Control.
 - 4** Press the **CURSOR RIGHT** button to enter the Channel Lock sub-menu.
 - 5** Press the **CURSOR UP** or **DOWN** button to highlight a specific channel from the list.
 - 6** Press the **OK** button. The "dot" in front of the channel number will change to yellow showing that the channel is locked.
- Repeat steps 5 and 6 for other channels you wish to lock.
- 7** Press the **MENU** button to remove the onscreen menu from the TV screen.

Note: To unlock a locked channel, enter your personal PIN number to clear the channel from being blocked. Please refer to page 51 for instructions on setting up a PIN (Personal Identification Number).

HELPFUL HINT

If you tune to a channel that is locked and you enter your PIN to unlock the channel, ALL locked channels will be unlocked until the television is shut off. When the television is turned back on again, previously locked channels will be locked again.



This screen will appear when tuned to a locked channel. To view the channel, enter your PIN.

This channel is locked. To unlock the channel, please enter your PIN.

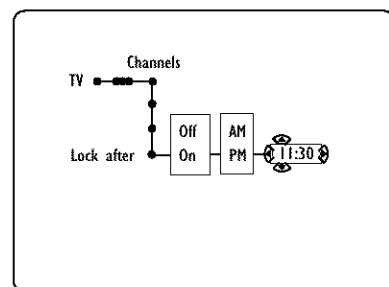
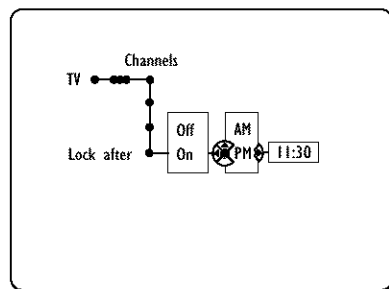
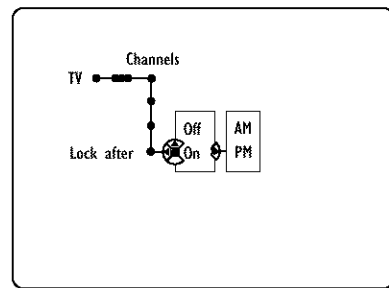
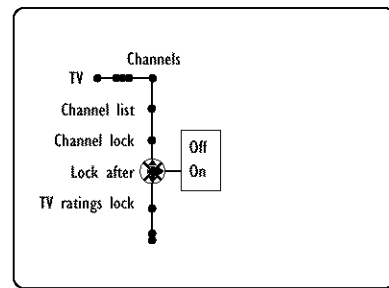
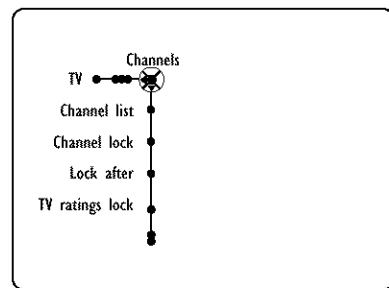
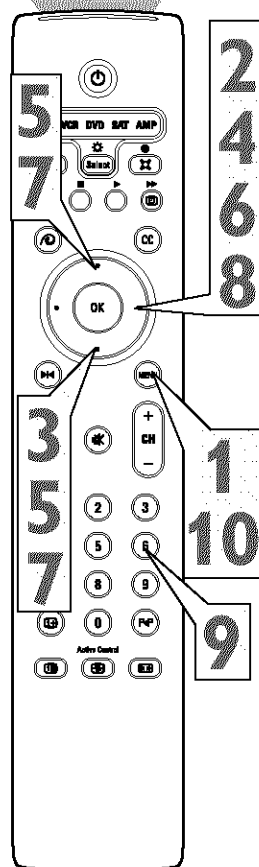
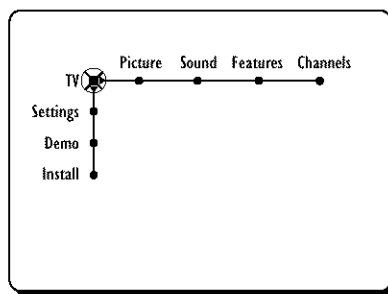


HOW TO USE THE LOCK AFTER CONTROL



There may come a time when you will need to block programming after a certain time of day. This is a great feature to limit the time your children watch TV or to lock all channels at night when material not suited for children might be broadcast.

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight CHANNELS.
- 3** Press the **CURSOR DOWN** button repeatedly to highlight the Lock After Control.
- 4** Press the **CURSOR RIGHT** button to enter the Lock After sub-menu (ON or OFF).
- 5** Press the **CURSOR UP** or **DOWN** button to highlight On from the list. A sub-menu with AM or PM will appear.
- 6** Press the **CURSOR RIGHT** button to enter the AM, PM sub-menu. A box with the time (or area when the time can be entered) will appear.
- 7** Press the **CURSOR UP** or **DOWN** button to highlight AM or PM.
- 8** Press the **CURSOR RIGHT** button to enter the lock after time.
- 9** Press the **NUMBERED** button to enter the time you want the television to lock all channels.
- 10** Press the **MENU** button to remove the onscreen menu from the TV screen.



This channel is locked.
To unlock the channel,
please enter your PIN.

PIN

Cancel

Once the Lock After setting takes place, all channels will display this screen. To view the channels, enter your PIN.

HELPFUL HINT

If you tune to a channel that is locked and you enter your PIN to unlock the channel, ALL locked channels will be unlocked until the television is shut off. When the television is turned back on again, previously locked channels will be locked again.

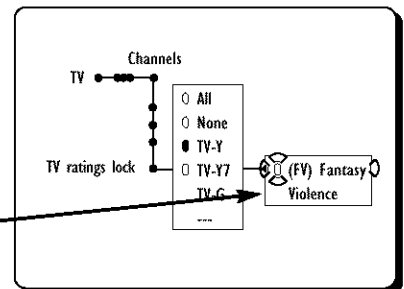
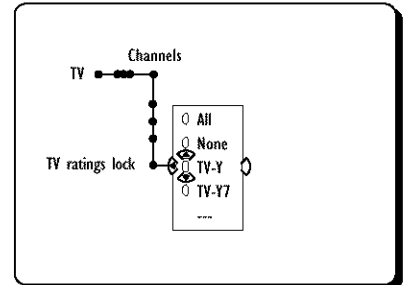
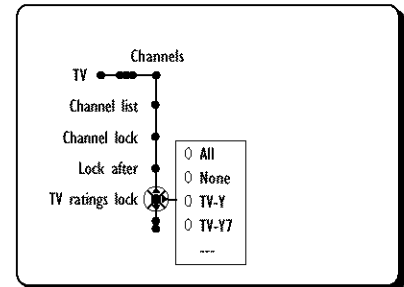
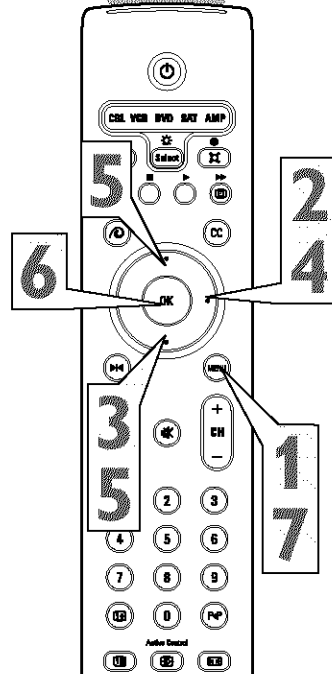
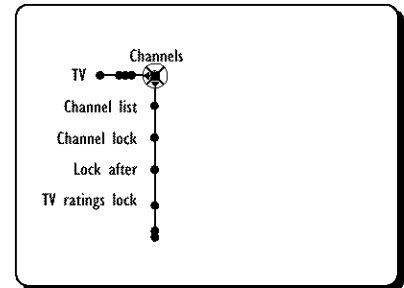
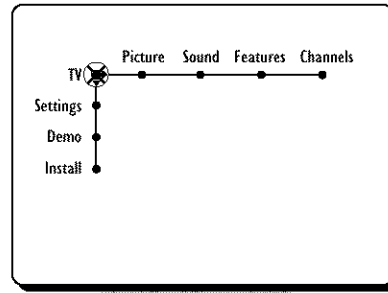


HOW TO BLOCK PROGRAMMING BASED ON TV RATINGS

You can select specific TV Ratings to block broadcast signal with unsuitable information.

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight CHANNELS.
- 3** Press the **CURSOR DOWN** button repeatedly to highlight the TV Ratings Lock Control.
- 4** Press the **CURSOR RIGHT** button to enter the TV Ratings Lock list of options.
- 5** Press the **CURSOR UP** or **DOWN** button to highlight one of the ratings.
- 6** Press the **OK** button to activate your choice. Note: Whenever a rating is turned On, all higher ratings (with their sub-ratings) will also be turned On or blocked.
- 7** Press the **MENU** button to remove the onscreen menu from the TV screen.

Note: Some of the TV Rating options contain specific sub-ratings. TV-Y7 contains sub-rating of (FV) Fantasy Violence; TV-PG and TV-14 contains sub-ratings of (D) Dialogue, (L) Language, (S) Sex, and (V) Violence; TV-MA contains sub-ratings of (L) Language, (S) Sex, and (V) Violence.



Some TV Ratings have sub-ratings that can be chosen.

TV RATINGS (TV BROADCASTERS)

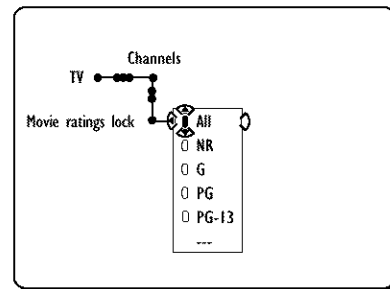
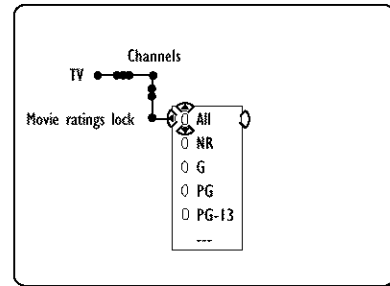
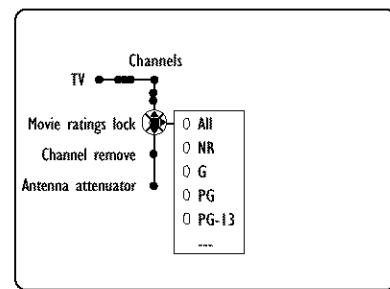
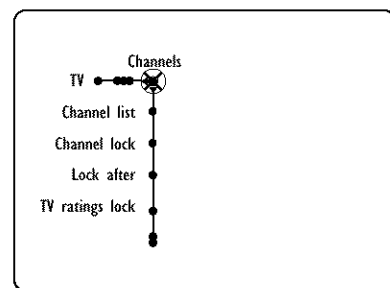
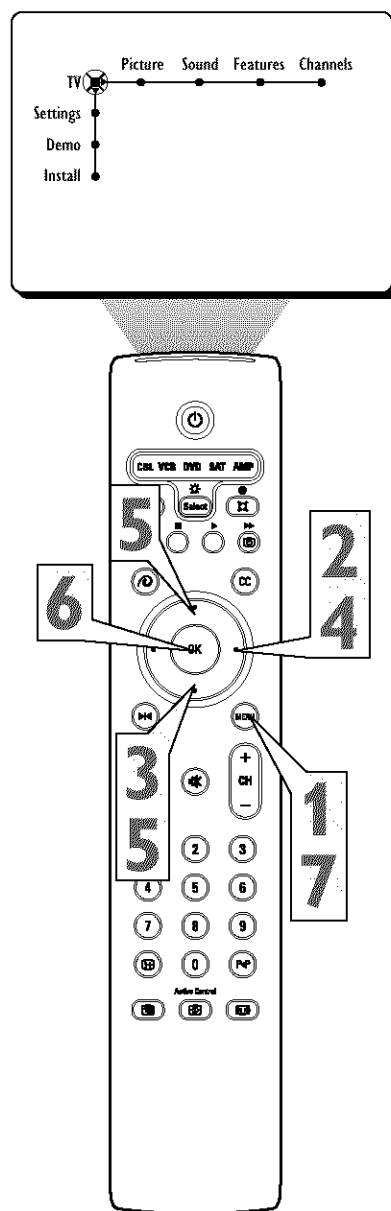
- TV Y** **TV-Y:** (All children -- appropriate for all children.) Designed for a very young audience, including children ages 2-6.
- TV Y7** **TV-Y7:** (Directed to Older Children -- designed for children ages 7 and above.) For children who have acquired the development skills needed to distinguish make-believe from reality. This programming may include mild fantasy and comic violence (FV).
- TV G** **TV-G:** (General Audience -- suitable for all ages.) Contains little or no violence, no strong language, and little or no sexual dialogue or sexual situations.
- TV PG** **TV-PG:** (Parental Guidance Suggested -- Contains material unsuitable for younger children.) Contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).
- TV 14** **TV-14:** (Parents Strongly Cautioned -- Contains some material unsuitable for children under 14 years of age.) Contains one or more of the following: intense violence (V); intense sexual situations (S); strong, coarse language (L); or intensely suggestive dialogue (D).
- TV MA** **TV-MA:** (Mature Audience Only -- Designed to be viewed by adults and unsuitable for children under 17.) Contains one or more of the following: graphic violence (V); explicit sexual situations (S); or crude, indecent language (L).

HOW TO BLOCK PROGRAMMING BASED ON MOVIE RATINGS



You can select specific Movie Ratings to block programming signals with unsuitable information.

- 1** Press the **MENU** button on the remote control to display the onscreen menu.
- 2** Press the **CURSOR RIGHT** button repeatedly to highlight CHANNELS.
- 3** Press the **CURSOR DOWN** button repeatedly to highlight the Movie Ratings Lock Control.
- 4** Press the **CURSOR RIGHT** button to enter the Movie Ratings Lock list of options.
- 5** Press the **CURSOR UP** or **DOWN** button to highlight the rating you wish to lock.
- 6** Press the **OK** button to activate your choice. Note: Whenever a rating is turned on, all higher ratings (and sub-ratings) will be turned on. (i.e., If R is selected, NC-17 and X will automatically turn on also.)
- 7** Press the **MENU** button to remove the onscreen menu from the TV screen.



MOVIE RATINGS

(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. Most parents would find this programming suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

PG: Parental Guidance Suggested - This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

PG-13: Parents Strongly Cautioned - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

R: Restricted - This programming is specifically designed for adults. Anyone under the age of 17 should view this programming only with an accompanying parent or adult guardian. It contains one or more of the following: intense violence; intense sexual situations; strong coarse language; or intensely suggestive dialogue.

NC-17: No one under the age of 17 will be admitted. - This type of programming should be viewed by adults only. It contains graphic violence; explicit sex; or crude, indecent language.

X: Adults Only - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

Quick Use and Setup Guide

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 Making Basic TV Connections
 Basic Cable TV Connections1
 Basic Antenna TV Connections1
 Basic TV and Onscreen Menu Operation2
 Remote Battery Installation3
 Remote Control Button Descriptions3
 Using the Language Control4
 How to Automatically Program Channels4
 How to Use the Demo Feature4

IMPORTANT

NOTE: This owner's manual is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television set. This is normal and does not require that you contact your dealer or request service.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD DO NOT EXPOSE THIS UNIT TO RAIN OR EXCESSIVE MOISTURE.

As an Energy Star® Partner, Philips Consumer Electronics has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

BASIC TV CONNECTIONS

CABLE TV

Your Cable TV input into your home may be a single (75 ohm) cable or a converter box installation. In either case, the connection to the TV is very easy. Follow the steps below to connect your cable signal to your new television.

If your cable signal comes directly from a round 75Ω coaxial cable use the following steps:

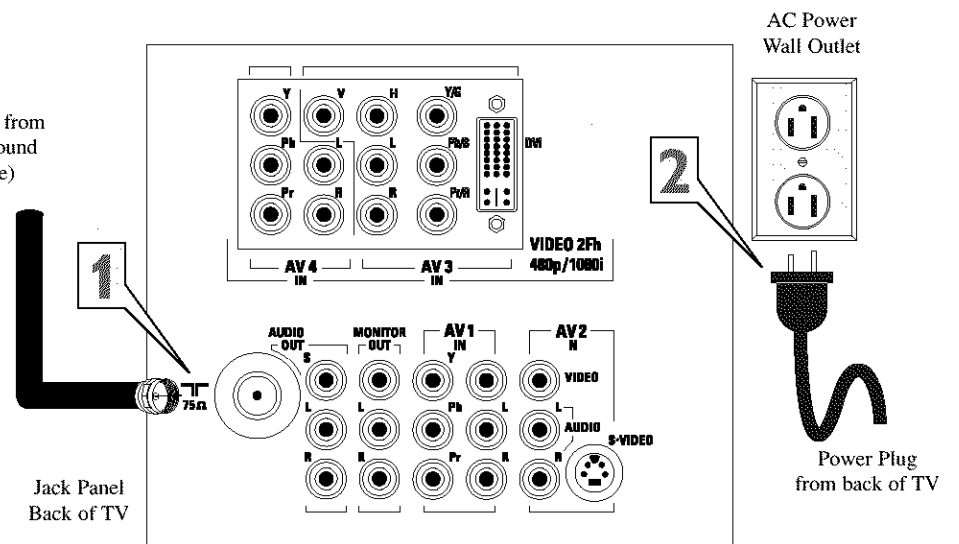
- 1 Connect the open end of the round Cable Company supplied cable to the 75Ω input on the TV. Screw it down finger tight.
- 2 Plug the television into the wall outlet and turn the TV on. Refer to the AUTOPROGRAM feature to program all the available channels on your cable signal.

If your cable signal comes from a cable box, use the following steps:

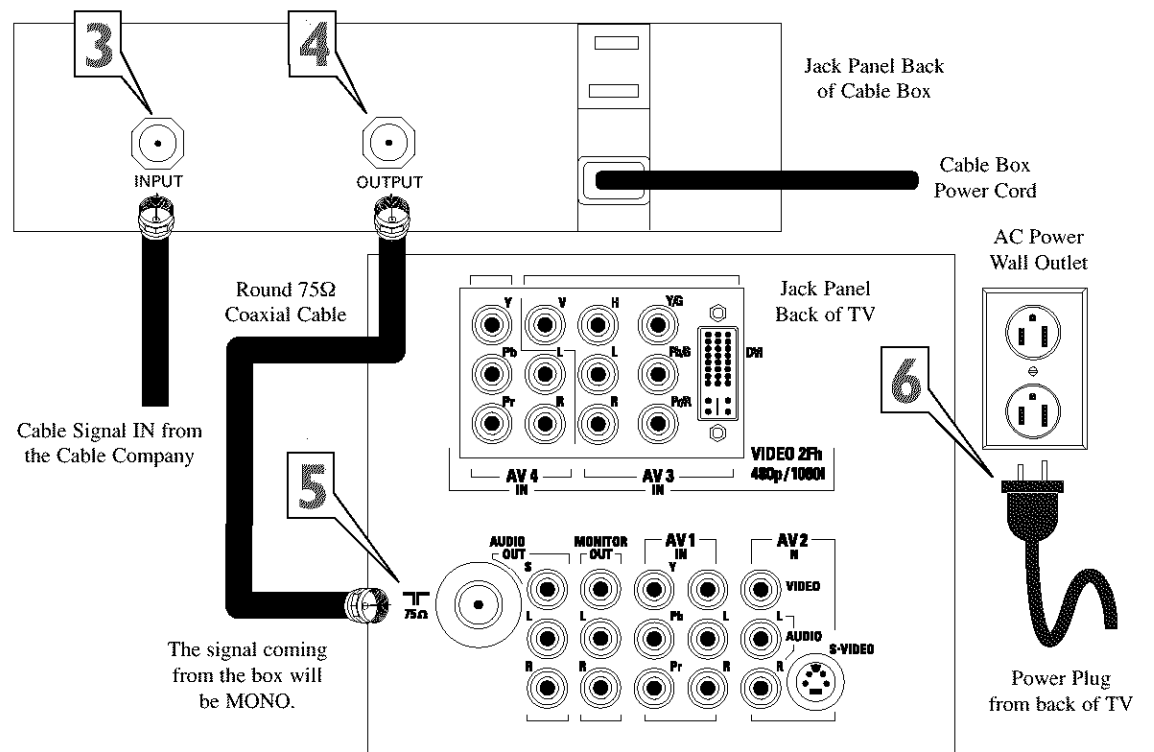
- 3 Connect the open end of the round Cable Company supplied cable to the cable signal IN(put) plug on the back of the Cable Box.
- 4 Using a separate round coaxial cable, connect one end to the OUT(put) plug on the back of the Cable Box.
- 5 Connect the other end of the round coaxial cable to the 75Ω input on the back of the television. Screw it down finger tight.
- 6 Plug the television into the wall outlet and turn the TV on. Refer to the TUNER and AUTOPROGRAM features on page 4 of this Quick Use Guide. TUNER should be set to the CABLE option. AUTOPROGRAM can be set to program all the available channels on your cable signal into the television's memory.

Direct Cable Connection:

Cable signal coming from Cable Company (Round 75Ω coaxial cable)



Cable Box Connection:

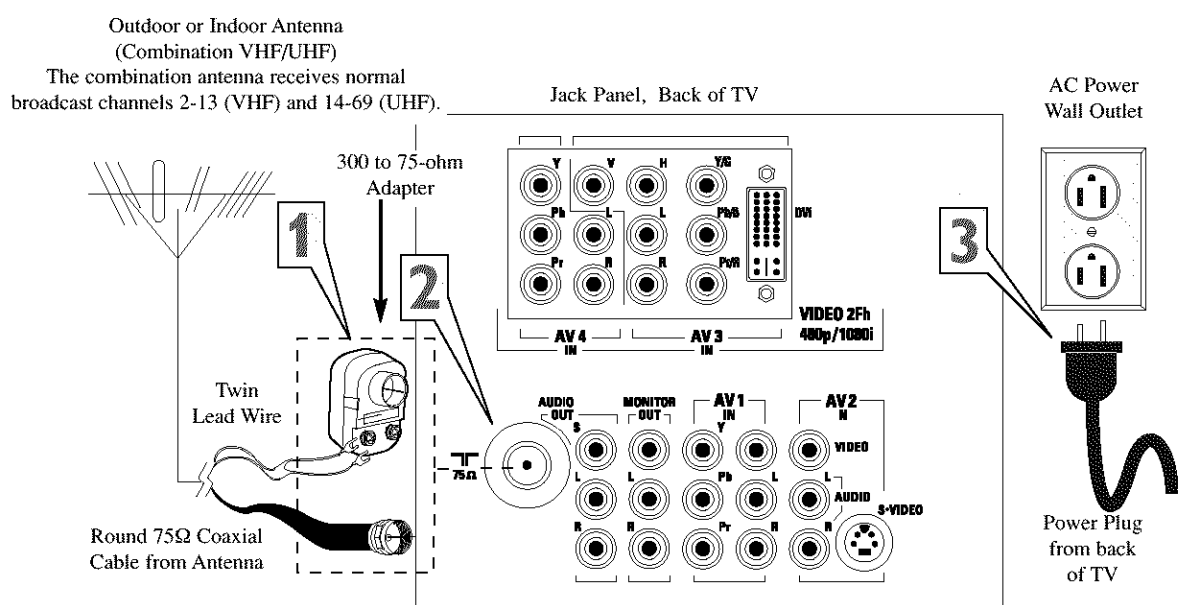


ANTENNA TV

A combination antenna receives normal broadcast channels (VHF 2-13 and UHF 14-69). Your connection is easy because there is only one 75Ω (ohm) antenna plug on the back of your TV, and that's where the antenna goes.

- 1 If your antenna has a round cable (75 ohm) on the end, then you're ready to connect it to the TV. If your antenna has flat, twin-lead wire (300 ohm), you first need to attach the antenna wires to the screws on a 300- to 75-ohm adapter.
- 2 Push the round end of the adapter (or antenna) onto the 75Ω (ohm) plug on the back of the TV. If the round end of the antenna wire is threaded, screw it down finger tight.
- 3 Plug the television into the wall outlet and turn the TV on. Refer to the TUNER and AUTOPROGRAM features on page 4 of this Quick Use Guide. TUNER should be set to the ANTENNA option. AUTOPROGRAM can be set to program all the available channels on your cable signal into the television's memory.

Antenna Connection:



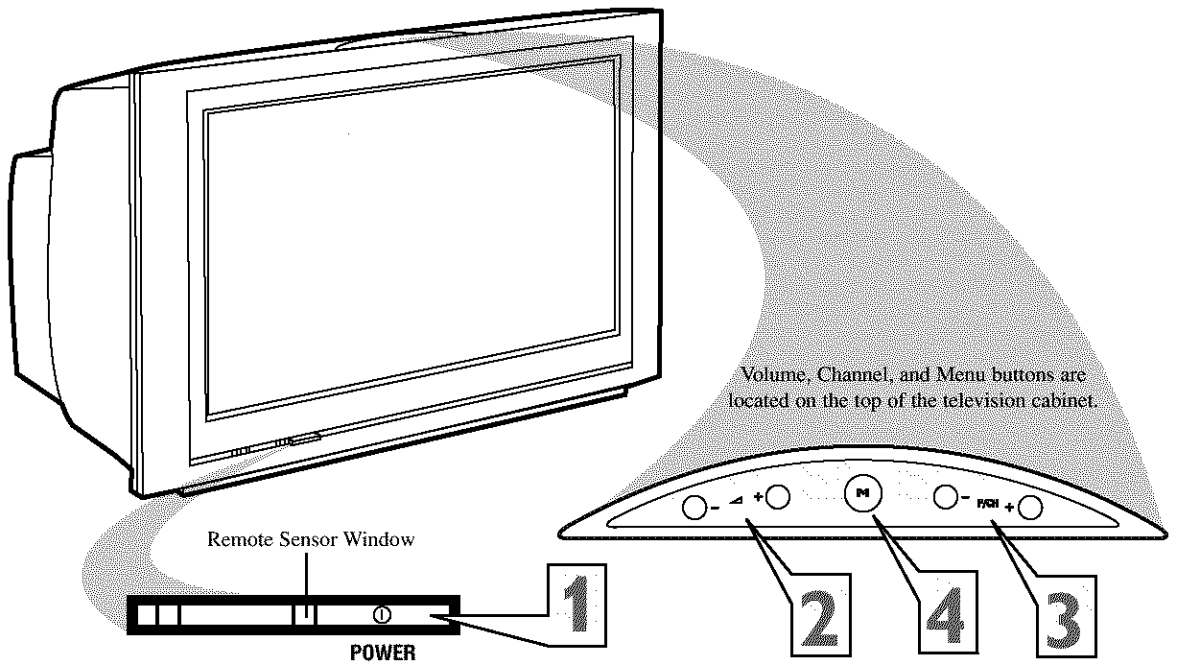
BASIC TV AND REMOTE OPERATION

TELEVISION

Your television has a set of controls located on the top of the cabinet for use when the remote control is not needed.

- 1** Press the **POWER** button to turn the TV ON. Located on the front lower left of the cabinet.
- 2** Press the **VOLUME (+)** button to increase the sound level or the **VOLUME (-)** button to lower the sound level. Or, use to navigate right or left when the onscreen menu is displayed.
- 3** Press the **CHANNEL - (down)** or **+ (up)** button to select TV channels. Or, use to navigate up and down when the onscreen menu is displayed.
- 4** Press the **M (Menu)** button to display the onscreen menu controls. If pressed while the onscreen menu is displayed, the menu will be removed from the television screen.

There is also a set of Audio and Video Input jacks located on the side of the television cabinet. This jack panel also contains a S-video and headphone jack. These jacks are great for connecting a video camcorder or any accessory device that will only be hooked up temporarily. Refer to the *Directions for Use* for more details.

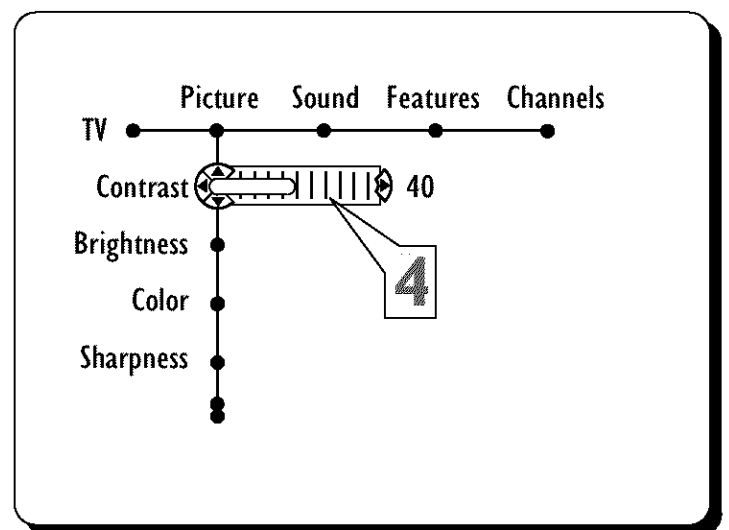
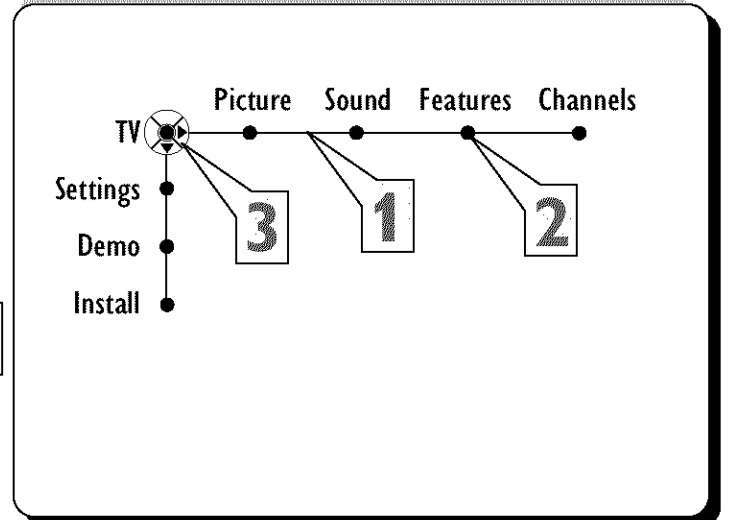
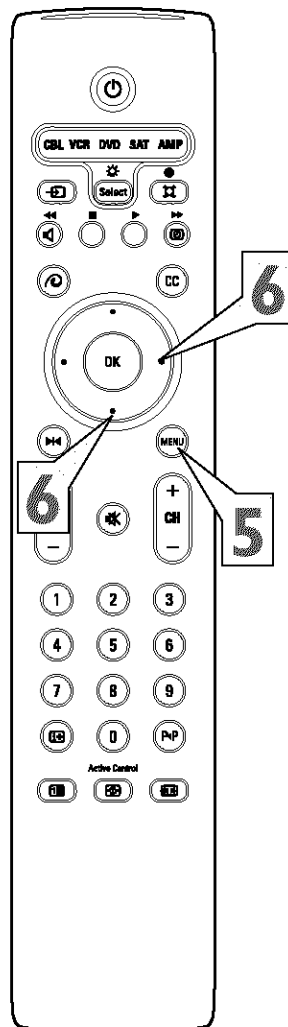
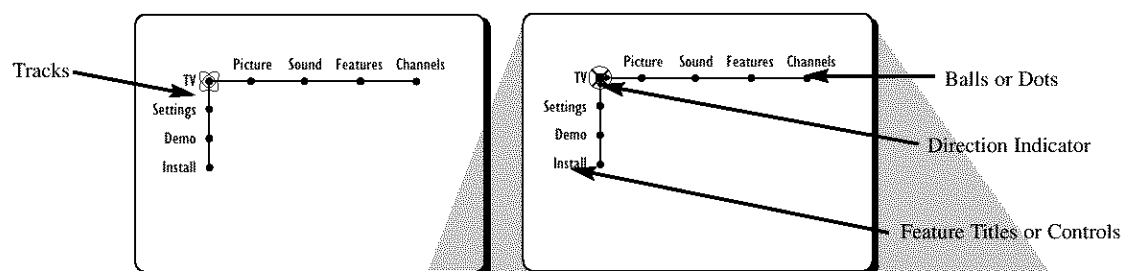


ONSCREEN MENU

The TV onscreen menu controls are viewed within a mobile map or track system. This system allows you to move along linked paths tied to specific Feature Title categories (TV, Install, etc). Each press of the Cursor buttons on the remote, or top of the TV, moves the cursor control to balls or dots indicating specific controls. Each specific control may have multiple features that can be adjusted. The animated onscreen menu structure will expand to view all available onscreen controls. As it expands, it will display a series of balls or dots grouped together to show more controls not displayed.

- 1** **TRACK** lines represent the structure of the onscreen menu. They tie all the controls together and show the path you can follow to access the available controls.
- 2** **BALLS or DOTS** indicate the titles of features or controls available on this television. Some of these controls when highlighted, may show more **TRACKS** and **BALLS**, indicating sub-categories or "lists" of controls within the highlighted control. These sub controls will also have **TRACKS** and **BALLS** as described with the feature controls.
- 3** **DIRECTION INDICATOR** let's you know which way movement may take place within the onscreen menu. The arrows on the **DIRECTION INDICATOR** simulate the **CURSOR** buttons on the remote control (UP, DOWN, RIGHT, or LEFT).
- 4** **SLIDER** controls will be displayed on some features, allowing adjustments to the value of the control. Some may show a box containing a list of multiple options settings. Others may only have an ON or OFF option.
- 5** To navigate the onscreen menu, start by pressing the **MENU** button on the remote control. This will display the onscreen menu in its starting position.
- 6** Press the **CURSOR DOWN** button to select any of the **SETTING**, **DEMO**, or **INSTALL** controls. Press the **CURSOR RIGHT** button on the remote control to select any of the **PICTURE**, **SOUND**, **FEATURES**, or **CHANNELS** controls.

Refer to page 4 of this *Quick Use Guide* for details describing the **INSTALL** and **DEMO** controls. Refer to the *Directions for Use* manual for all other control descriptions (**PICTURE**, **SOUND**, **FEATURES**, **CHANNELS**, or **SETTINGS**).



HELPFUL HINT

Pressing the **MENU** button once will display the onscreen menu. Pressing the **MENU** button any time the onscreen menu is displayed will remove the onscreen menu from the television screen.

REMOTE CONTROL OPERATION

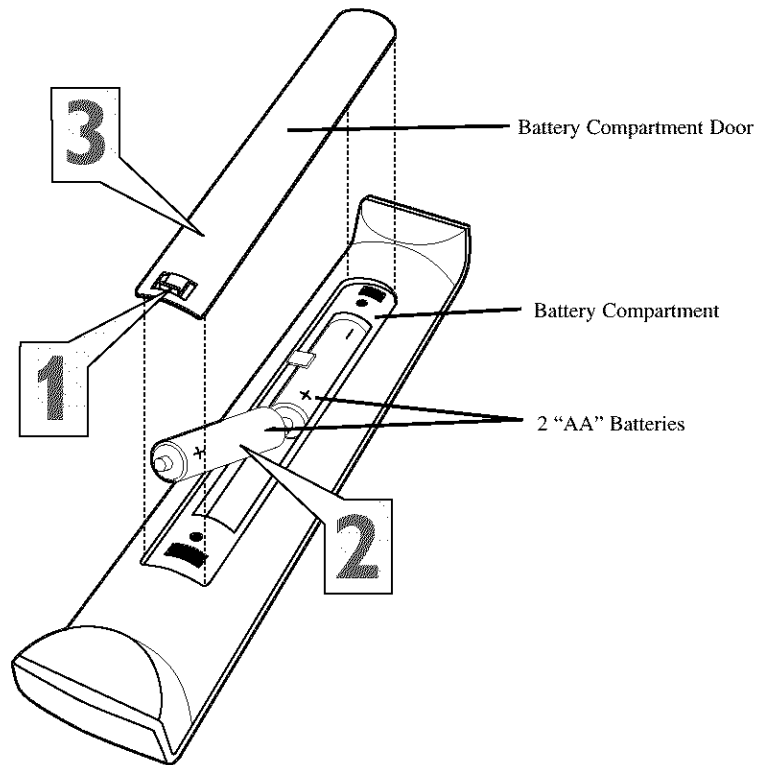
REMOTE CONTROL BATTERIES

To load the supplied batteries into the remote:

- 1** Remove the battery compartment door on the back of the remote.
- 2** Place the batteries (2-AA) in the remote. Be sure the (+) and (-) ends of the batteries line up correctly (the inside of the case is marked).
- 3** Reattach the battery compartment door.

Be sure to point the remote at the Remote Sensor window on the front of the television when using the remote control to operate the television.

Remote Control
(shown from the bottom)



REMOTE CONTROL BUTTONS

Select (CBL VCR DVD SAT AMP) Button

Press the Select Button repeatedly to select one of the system modes in which the remote can be used. Once the mode is selected, an action must be made for the remote to remain in the selected mode or it will default back to the TV mode.

Backlight Button

Press and hold the Select Button for 2 seconds to back-light the Volume, Channel, Mute and Numbered buttons on the remote.

Source Button

Press this button to select the different signal source options when in the TV mode. Select the AV1, AV2, AV3, AV4, SIDE or the current channel source.

Alternate Audio Button

If tuned to a channel that is broadcasting SAP (Second Audio Programming), pressing the Alternate Audio button will toggle between standard or main audio and SAP. If SAP is not present, the button will have no effect.

Pixel Plus Button

Press the Pixel Plus button and the TV screen will be divided in half displaying the Pixel Plus Demo. The left side will display the picture with Pixel Plus and Digital Natural Motion switched OFF. The right side of the screen will display the picture with Pixel Plus and Digital Natural Motion switched ON. The demo will show the benefits of Pixel Plus. Press again to turn the demo off.

OK Button

Press the OK button to activate or confirm menu choices.

Freeze Format Button

Pressing the Freeze button will freeze the picture in one of the various Freeze options. Please note that the Freeze option must be set within the TV's onscreen menu.

Freeze Mode - The main picture will freeze onscreen, press again to resume normal viewing. Sound will continue to be heard.

Replay Mode - Will display a few seconds of stored video in the PIP window.

Photo Finish Mode - Will display 6 PIP windows of stored video picture.

Volume +, - Button

Press the + side of the button to increase the volume level of the TV. Press the - side of the button to decrease the volume level of the TV.

Mute Button

Press to eliminate the sound coming from the TV's speakers. Press again to restore the sound.

Display Information Button

Press this button to display information (when available) about the current channel, program, source, number or name, local time, CC availability, SAP availability, program ratings, display format, sound mode, and remaining length of a Sleep timer setting.

Dual Screen/PIP Button

Press repeatedly to toggle through the PIP options. PIP settings must be set within the TV's onscreen menu.

Power Button

Press to turn the TV On or Off.

(Note: The TV is never really powered off completely unless it physically unplugged from the power source.)

Sound Mode Button

Press this button to display a list of available sound modes. Choose from Dolby Pro Logic, 3D Surround, Dolby 3 Stereo, Stereo or Hall settings.

VCR Functions (◀◀, ■, ▶▶, ●) Buttons

When in the VCR Mode, these buttons will control the Play, Stop, Fast Forward, Rewind, and Record functions.

Time Display Button

Press this button to display the current time on the TV screen.

CC (Closed Caption) Button

Repeatedly pressing the CC button will turn CC ON, OFF or ON whenever the MUTE button is pressed.

Cursor Ring Up/Down/Right/Left

Use the Cursor Ring Up, Down, Right, or Left to navigate through the onscreen menu and make selections or changes within the controls.

Menu Button

Press to display the TV onscreen menu or to turn it off.

Channel +, - Button

Press to scroll through the available channels or sources stored within the TV's memory. See the Auto Program section of this manual to learn how to store all available channel into the TV's memory.

Numbered Buttons

Press to directly access a specific TV channel. For two, or three digit channel, enter all numbers. Press a single digit button and hold a bit longer to directly access a single digit channel. These buttons also can be used to enter values in certain onscreen menu controls.

P◀P (Surf) Button

If the SURF setting within the TV's onscreen menu control is set to 2 channels, pressing this button will act like an alternate channel button allowing you to toggle between the current channel and the last viewed channel. If the SURF setting is set to 9 channels, pressing this button allows you to add and scroll up to nine of your favorite channels.

Picture Format Button

Press this button repeatedly to scroll through all the available picture formats. Choose between, 4:3, Movie Expand 4:3, Movie Expand 16:9, Super Zoom, Wide Screen, or 16:9 Subtitle.

Active Control Button

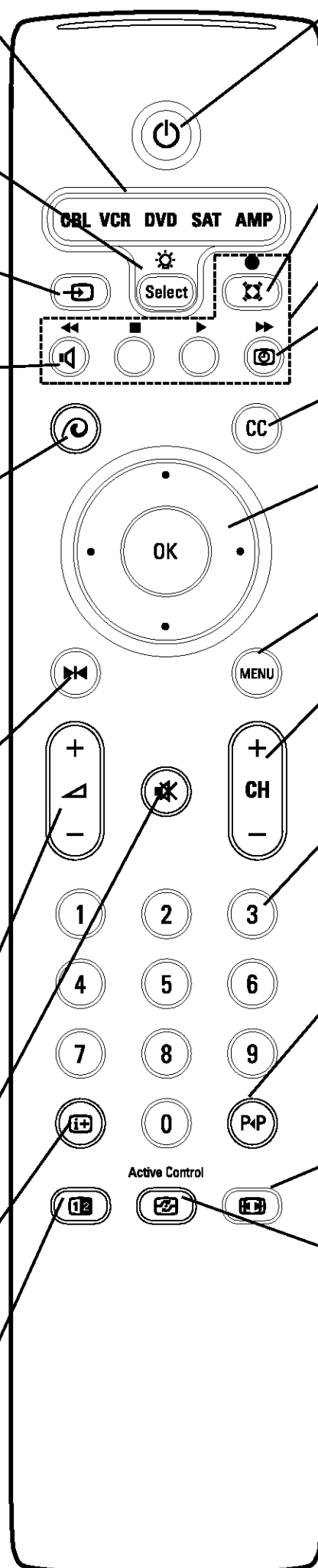
Pressing this button will display a demonstration of the Active Control. Active Control can be set to four different levels within the onscreen menu.

OFF - will control the Sharpness and Dynamic Contrast automatically.

MINIMUM - will control the Sharpness, Dynamic Contrast and Noise Reduction levels automatically.

MEDIUM - will control the Dynamic Contrast, Color, Sharpness and Noise Reduction levels automatically.

MAXIMUM - will control the Contrast, Dynamic Contrast, Color, Sharpness, and Noise Reduction levels automatically.



HOW TO USE THE INSTALLATION FEATURES

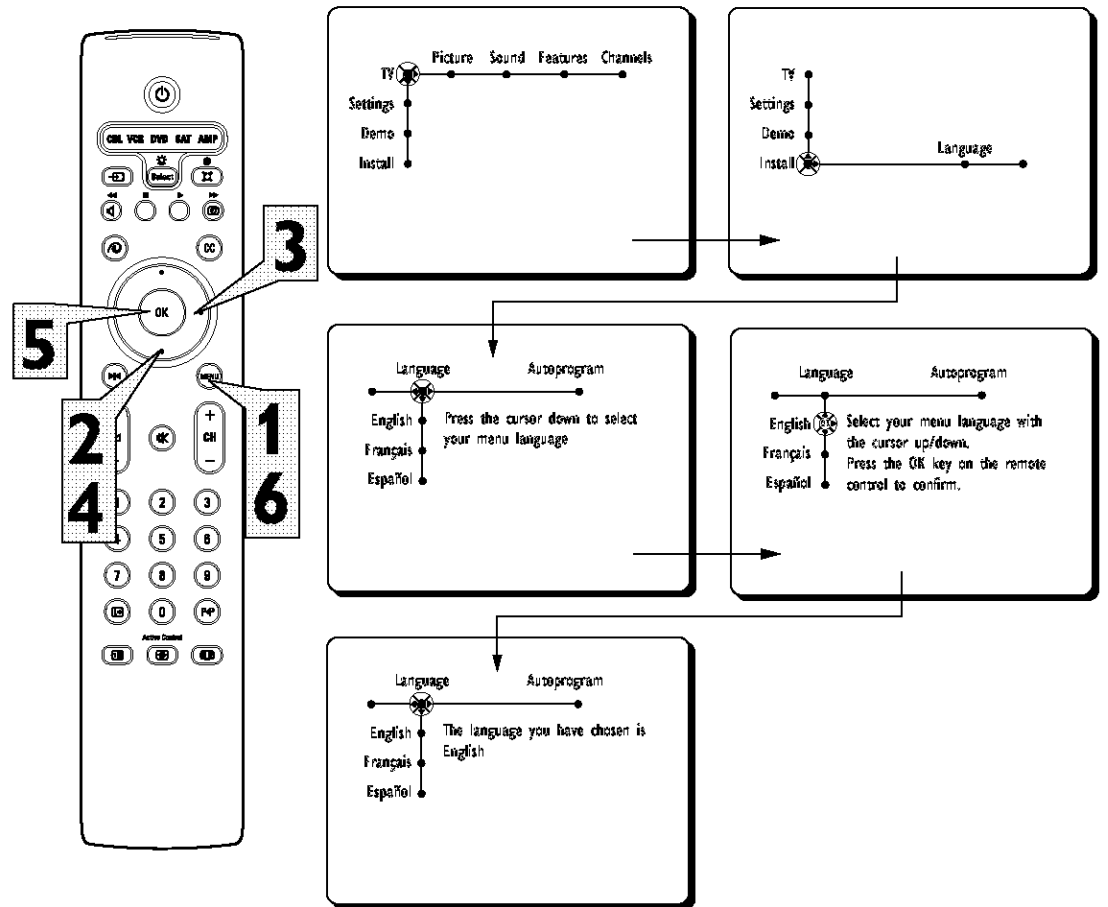
LANGUAGE

For our Spanish and French-speaking TV owners, an onscreen LANGUAGE option is present. The LANGUAGE control enables you to set the TV's onscreen menu to be shown in either English, Spanish, or French.

- 1** Press the **MENU** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR DOWN** button repeatedly until **INSTALL** is highlighted.
- 3** Press the **CURSOR RIGHT** button to shift the menu to the left and highlight **LANGUAGE**.
- 4** Press the **CURSOR DOWN** button to select **ENGLISH**, **ESPAÑOL** (Spanish), or **FRANÇAIS** (French).
- 5** After you have made your language selection, press the **OK** button to confirm your selection.
- 6** Press the **MENU** button to remove the onscreen menu from the TV screen.

HELPFUL HINT

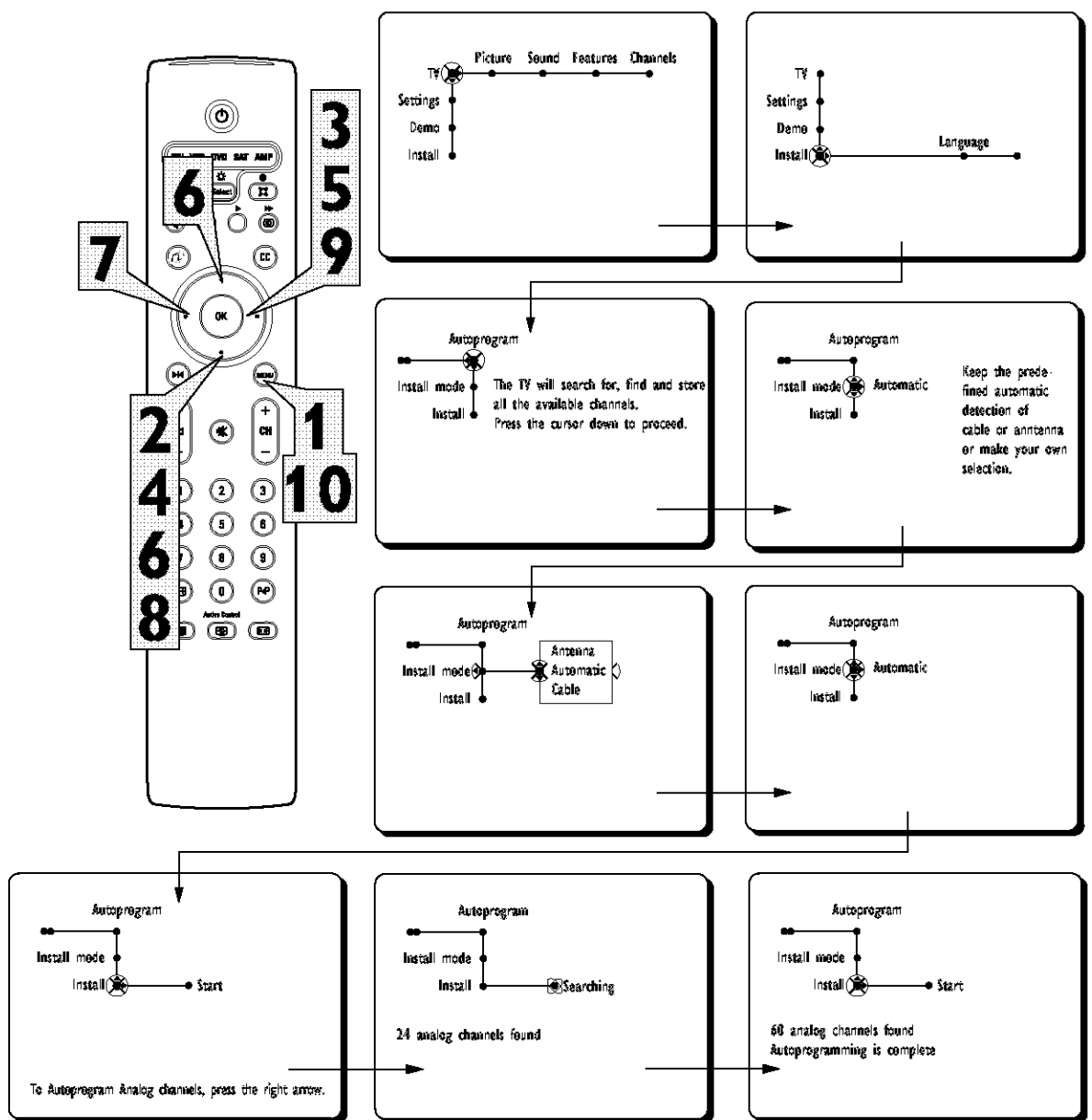
Remember, the LANGUAGE control makes only the TV's onscreen MENU items appear in English, Spanish, or French text. It does not change the other onscreen text features, such as Closed Captioning (CC), with TV shows.



AUTO PROGRAM

Your TV can automatically set itself for local area (or cable TV) channels. This makes it easy for you to select only the TV stations in your area by pressing the CHANNEL (+) or (-) button.

- 1** Press the **MENU** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR DOWN** button repeatedly until **INSTALL** is highlighted.
- 3** Press the **CURSOR RIGHT** button repeatedly to shift the menu to the left and highlight **AUTOPROGRAM**.
- 4** Press the **CURSOR DOWN** button to highlight the **INSTALL MODE** control.
- 5** Press the **CURSOR RIGHT** button to display a list of Install mode options (Antenna, Automatic, Cable).
- 6** Press the **CURSOR UP** or **DOWN** button to select one of the options. Select Antenna for normal outside or inside type antenna. Select Cable for a cable company supplied signal. When Automatic is selected the TV will automatically set the mode based on the type of signal it detects coming into the TV.
- 7** Press the **CURSOR LEFT** button after making your Install mode selection.
- 8** Press the **CURSOR DOWN** button to highlight **INSTALL**.
- 9** Press the **CURSOR RIGHT** button to start the Autoprogramming process.
- 10** Press the **MENU** button to remove the onscreen menu from the TV screen when the Autoprogramming process has finished.



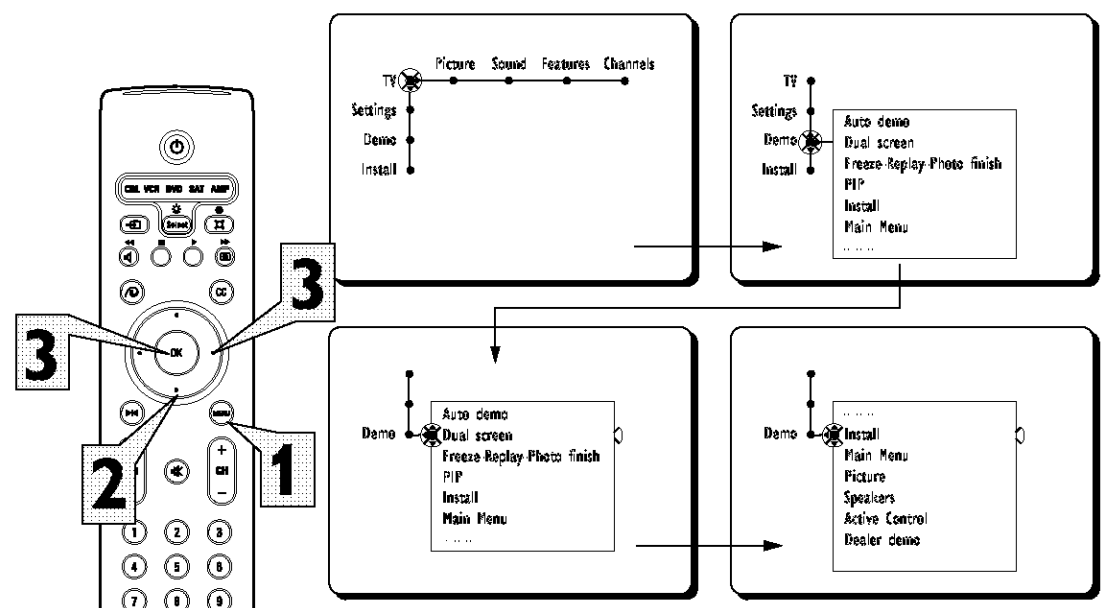
HELPFUL HINT

After you've run Auto Program, check out the results. Press the CHANNEL (+) or (-) button and see which channels you can select.

DEMO MODE

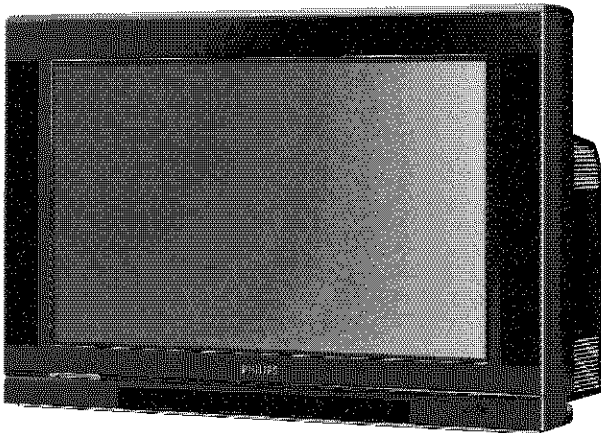
Several features of this television can be placed into a demo mode. Auto Demo will automatically show all the feature demos in a sequential loop, one after another except for the Dealer Demo mode. Specific demo modes can be selected from the list of options within the Demo control. (For example: Auto demo, Dual screen, PIP, etc.) The Dealer Demo also has a sub-list of options that include: Digital options, Lightsensor, and 3D Y/C Comb filter.

- 1** Press the **MENU** button on the remote control to show the onscreen menu.
- 2** Press the **CURSOR DOWN** button repeatedly until **DEMO** is highlighted.
- 3** Press the **CURSOR RIGHT** button to shift the menu to the left and display the list of Demo mode options. To activate any of the Dealer Demo modes, press the **OK** or **CURSOR RIGHT** button.



34" Digital Widescreen HDTV Monitor with Pixel Plus™

- PixelPlus™ resolution enhancement
- Digital Natural Motion™
- Active Control™ Plus
- 34" Widescreen (16:9) RealFlat™ Picture Tube
- DVI with HDCP
- 3D Y/C Comb Filter
- Double Window, Two Tuner PIP
- 6 Speaker Sound System with Subwoofer
- AutoScreen™ Fit



PHILIPS



34" Digital Widescreen HDTV Monitor with Pixel Plus™

Picture Quality

Pixel Plus™ Resolution Enhancement

Experience better! Better detail, better texture, better resolution, more high definition like images even from non-HD sources. Pixel Plus™ will take your viewing to new levels of enjoyment. Pixel Plus™ is only from Philips.

Digital Natural Motion™

Eliminates motion judder from film based sources such as DVD's for distortion free, natural viewing.

Widescreen RealFlat™ Picture Tube

RealFlat offers less glare and far better geometry than traditional curved tubes, resulting in a brighter crisper image. The Widescreen format fits today's DVD's and HD signals without the need for large black bars across the top and bottom of the screen.

3D Y/C Comb Filter

For the highest possible picture quality from R/F or Composite connections. Virtually eliminates horizontal and vertical hanging dots as well as dot crawl. The Y/C component optimizes the edge detail required for today's text and graphic filled sources.

Ease of Use

Active Control Plus™

By continually adjusting picture settings over 60 times per second, Active Control Plus ensures that the viewing experience is always optimal. Changes in ambient light are even automatically compensated for!

Double Window, Two Tuner PIP

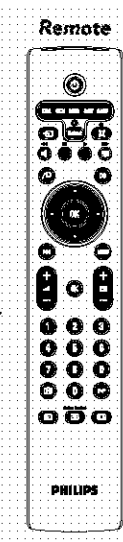
Allows for simple one button enjoyment of watching two programs at the same time without the need for any additional equipment.

AutoScreen™ Fit

Automatically eliminates black bars from any source by selecting the perfect format for the signal being viewed.

- AutoMute™
- AutoLock™
- Auto Surf™ List
- Channel Auto-Programming
- English/French/Spanish menu
- 180-minute Sleep Timer
- Closed Caption viewing

This television receiver provides display of television closed captioning in accordance with 15.119 of the FCC rules.



Sound quality

Dolby® ProLogic Decoder

Allows a more immersive sound experience.

6 Speaker Sound system with subwoofer

Exciting and lifelike sound with full left-center imaging and deep, powerful bass performance.

- Powerful 4 x 15 watt amplifier built in
- TV as center channel option
- 3D Surround
- AutoSound™ control

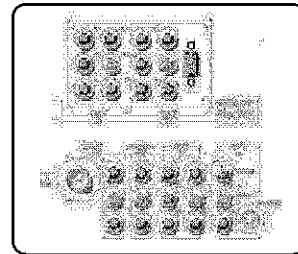
Connectivity

DVI w/HDCP

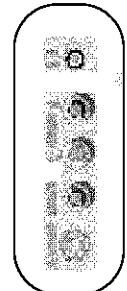
The best possible input for high definition sources for superb color purity, detail and reduced color noise, surpassing even S-Video.

- 2 sets of HD Component Video inputs
- 1 set of Component Video Inputs
- 1 S-Video inputs
- 2 Sets Rear stereo AV inputs and outputs
- Side S-Video and stereo AV inputs

Rear AV Panel



Side AV Panel



Miscellaneous

- Mains: AC 110V ± 10%
- Power consumption: Normal operation: 270 Watts
- Stand by: <1W
- Product dimension (d x w x h): 36.5 x 21.2 x 23.3"
- Product weight: 176.5 lbs.
- Carton dimensions (d x w x h): 41.5 x 28.8 x 30"
- Shipping weight: 198.45 lbs.
- UPC: 0 37849 93384 8

Universal remote control – RC2043/01B

Universal RC managing TV and peripherals.

PixelPlus, Digital Natural Motion, AutoSound™, AutoPicture™, AutoMute™, AutoLock™, ActiveControl™, Real Flat™ are trademarks of Philips Consumer Electronics Company.

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As an ENERGY STAR® Partner, Philips has determined that this product meets the ENERGY STAR guidelines for energy efficiency

Specifications subject to change without notice.

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➤ Optional TC34ML02 television stand (shown on front) provides the ideal solution to table top placement with an emphasis on high design, storage, and safety.